॥ ॐ सूर्य भारमा जनतस्तरपुरश्च ॥

SURYA NAMASKARS

For

Health, Efficiency & Longevity
By

BHAVANRAV SHRINIVASRAV
PANT PRATINIDHI, B A,

RAJASAUER OF AUNDH.

Fifth Edition (8000 Copies)

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What Can Surya Namaskars

Surva Namaskar Exercise

alone deserves to be universal

Cash value of Health

PREFACE TO THE FIFTH EDITION.

It may be a news to our readers that the universal popularity and usefulness of our Sürya Namaskär System of Exercise have caused much envy and malice among people who bate to see anyone except themselves prosper. It is the characteristic of a certain class of persons to cherish ill will towards-another simply because of his superior success and endowments.

The editor of "Sunday Referee", London, had the effrontery to publi-h a libellous and malicious article in his paper, dated 3rd January, 1937, about ourselves and our Namaskär Exercise. With the help of our son Shrimant Appa Saheb, Bar-at-Law, we appealed to a Court of Law in London against this defamation. The defendants offered their unconditional apology and paid a substantial sum into Court to compensate us for our injured feelings.

The Sūrya Namaskār Exercise is being practised not only in India but elso in Europe and Australia.

The Fourth Edition was published in England in 1938 for England and other English speaking countries such as The United States of America, Canada, Cape Colony, Australia, etc., where it is now widely circulated

The issue of the Fifth improved and enlarged Edition of this work gives us an opportunity to thank those who have expressed their appreciation of the Namaskär Exercise. And we trust that many more may find it as the intallible means of improving and maintaining their health.

Chapter XVIII is entirely a new addition and will be found to enhance the value of the book. What is said of the book cannot convey an adequate picture of its true worth. You must see it to appreciate its great usefulness.

The book as it now appears "is a call to arms to secure for human race the high standard of health, which is its birth right."

Modern life is exceedingly wearing: The noise, the excitement, the hurry, the competition, irregular hours, hard study, anxieties, worry, lack of proper-food and exercise make a heavy tax on the constitution soon resulting in a break-down of health. One can, however, be uneffected by these evils of modern civilization, if one should perform the Sürya Namaskär Exercise daily and take care of the diet, and make proper use of sunshine and open air.

With 19 Chapters, 31 full page Illustrations, and an illustrated Wall Chart, the book, we trust, will continue to pave the way to vin that trinity of lite essentials-Health. Efficiency and Longevity.

Aundh, District Satara. November, 1940.

The Author

CHAPTER I.

THE NECESSITY AND VALUE OF EXERCISE.

THE PRINCIPAL PARTS OF BODY REQUIRING EXERCISE.

(A) THE NECESSITY OF EXERCISE.

Physical exercise has always been and still is necessary to the human being for Health, Efficiency and Longevity. It is indispensable to every modern individual so that in the present struggle for existence he be able to protect himself, his community and his nation and to earn his bread. It is as necessary to life as wholesome food, pure water, open air and sunshine.

Most people in these civilized days die twenty-five to fifty years previous to their allotted time because of the toxic condition of their blood, brought about by wrong food and drink and lack of exercise. The only antidote is right diet and harmonious system of physical culture. It is the muscular and mental activity that will enliven our life and will render us more efficient as a human unit. Our emotional reaction to every thing with which we come in contact in life is also tremendously multiplied.

Almost all children, till they are about eight years old, amuse themselves by running, romping and by a variety of outdoor and indoor games. For them system also exercises are not necessary. When, however children are confined in unhygiems school rooms continuously for two or three hours in the morning and to the same period in the afternoon, and when the chubbiness of infancy begins to disappear to make way for their further bodily development, they must be made to take some methodical exercise regularly with a view to developing their body and mind

Until a boy or a gril knows how regular exercise absolutely necessary for his or her bodity and mental development health, strength vigour and finess systematic exercise should be enforced up n young people by their parents, guardians and school masters

To leave this vitally important matter to the discretion of fancy of students will not do nowadays especially when the succeeding generation is getting appreciably weaker than the preceding one in spirit, vitality and longerity. It is high time for us to take immediate steps to check this growing national degeneration. We cannot now afford to stand indifferent with folded arms.

(B) VALUE OF EXERCISE

The value of exercise carefully chosen and properly executed cannot be over estimated It is essential however, that when performing the various rhythm o movements we pay special attention to the development of the we lot muscular system in unison Our aim should be all-round perfection and not simply the

of strength. True, muscle is some indication of physical power, but it is no criterion of general fitness.

"Exercise is beneficial to both sexes and all ages No matter what branch of occupation we follow, or how physically incompetent we feel, a few exercises of the right kind will work wonder."

-Robert L. Fergusson, in "Health and Efficiency", July, 1928

We should like to impress upon the reader that physical exercise is more potent as a preventive than as a curative of the ills which the flesh is heir to, For thousands of years medical science and medical men have been trying to cure ailments and diseases with drugs serums and scalpel all over the world, but they have never been able to eradicate disease from the face of the earth. Is it possible to do so? Yes, we venture to say, if the medical and hygienic sciences, Government and the public all direct their energies to find out and remove the causes of disease and to take care not to allow them to recur instead of trying to cure them. For however potent be the measures, such as medicines, serums, surgical treatments, etc., discovered by modern science for curing diseases, they cannot remove the origin or cause of diseases. Here again then. it is asserted that proper diet and Surya Namaskars if faithfully practised will be found pontent enough to achieve this end.

(C) THE PRINCIPAL PARTS OF THE BODY REQUIRING EXERCISE.

One should strive to develop and strengthen the 'four principal parts of the body, on the proper function-

ing of which all health depends. It has been found by actual experience that the "Sūrya Namaskār" exercise if regularly, methodically and scientifically done, renders these four parts fully developed and capable of resisting disease or disease-germs. The four parts are:-

- The Abdomen containing (a) Digestive Organs as 'stomach, liver, intestines; (b) Kidneys, (c) Uterus or Womb. A large number of people men and women, suffer from stomachic and intestinal disorders such as, dyspepsia, constitution, liver complaints, dropsy, piles, diabetes and a host of other diseases, and most women from nterus disorders.
- The Chest containing Heart and Lungs Colds, coughs asthm, tuberculosis, pulpitations, etc., are some of the symptoms of heart and lung derangement.
- 2. The Nervous System which includes Brain, Spinal cord, etc.—Brain affection is indeated by headache, megrim or hemicrania, insanity, brain-fag, loss of memory, etc. Paraplegia or paralysis, myelitis, scleriasis of the cord, loss of nervous control over the various muscles, fatigue after slight exertion, depression of spirit, cold hands and feet, disturbed sleep, pessimiem, etc., are some of the common ailments of the Spinal Cord.

The secret of human power and health resides in the Nervous System. It is the Nervous System that transmits energy to the tissues and organs of the body. It is not the actual muscle which makes a man strong so much as the vital energy behind it. Exercise not only improves the general health, but directly stimulates the nerve-centres Health is not at all a matter of muscle. It means taking in as much energy as you give out.

 The Eliminative or Excretory Organs, as the Colon, Lungs, Kidneys, Skin, etc., which, when not properly exercised, accumulate toxins or poisons in the body.

Insanity is comparatively rare amongst us in India, but the number of people falling premature victims to the diseased condition of the other three parts of the body is vast, especially among the so-called educated classes. It is admitted that wrong or excessive food is one of the causes of this worful mortality, but it must also be admitted that lack of proper physical exercise is perhaps the main cause. It is clear, therefore, that an adequate and scientific system of exercise like Sürya-Namsskärs which brings into play all the aforesaid organs, is indispensable, if health is to be maintained and longevity attained.

CHAPTER IL

DISADVANTAGES OF OTHER MODES OF EXERCISE.

It is an acknowledged fact that all games, whether eastern or western, require one or more companions. Even the great Indian game of wrestling needs one opponent, whilst most other games need either other players or special outfit.

Exercise with Indian clubs or dumb-bells cannot be done without clubs or dumb bells. For riding you need a horse or bicycle You cannot swim without water. Walking, though not requiring apparatus or a companion, takes a lot of time. Eight miles' walk cannot ordinarily be done in less than two hours or two and a half at the rate of 15 or 20 minutes a mile. And all of the outdoor exercises depend upon favourable weather.

Any sport or game requires a spacious ground, which is not always available. In large towns, like Bombay and Poona, there are no play-grounds large enough to accommodate all of the school and college going students. Poona, for instance, has over nine or ten thousand pupils attending Municipal schools alone, with but four play-grounds for them all, each ground affording space for two or three hundred children only at the most.

The exercise to be insisted upon should develop not only the limbs, muscles and internal organs of the body but should also promote mental and spiritual development. To make such a physical exercise universally popular and acceptable there should be no necessity of apparatus or appliances; it should be easy to do; it should take a short time to perform; it should admit of being taken anywhere and by anybody and should not necessitate a pyrtner or companion. (Vide Chapter XVIII)

There are many systems of exercise for the development of particular portions of the body, but the system most needed by men and women, young and old, is one that will stimulate, develop and strengthen the vital organs and muscles and thus enable them to store up vitality and energy Our Namaskar System of Exercise will accomplish it wouderfully.

or to give them up altogether, is positively harmful, even as to eat two or three times the usual quantity of food and then to give it up altogether, would be both foolish and dangerous The rules that govern duet and pastime apply to exercise as well. An exercise to be beneficial, should be taken daily, regularly, continuously and proportionately to one's strength. It is the daily performance of exercise, physical or mental, that will produce the desired effect. It ought, therefore, to become a habit.

To gain the desired end, therefore, Sūrya Namaskārs have to be done daily systematically and scientifically. They are not a rope-dancer's antics. They must be so performed as to develop and strengthen almost every part of the body.

We have observed that in some schools and colleges physical training, such as gymnastics, drill, etc., is imparted to students twice or thrice a week. Such spasmodic efforts will nover produce the desired benefits, which we want every boy and girl to possess.

The rewards, which await those who perform Sûrya Namaskārs according to our instructions, will be beyond price.

CHAPTER IV.

HOW TO DO SURYA NAMASKARS.

Every Surya Namaskar is concerned with the action of the following eight. parts of the body:—
1 Forehead, 2 chest, 3 legs and feet, 4 arms and hands, 5 knees, 6 sight, 7 vord organs and 8 mind and will.

There is given below the mode of performing Sürya Namaskärs that was followed by the writer's worthy father, the late Chief of Aundh. For 55 years he did these Sürya Namaskärs. We follow the same method.

For Sūrya Namaskārs a piece of ground, 7' × 2½', made of pared stone, rough bricks, or similar non-slippery surface and perfectly horizontal, is all that is required. As little clothing as possible should be worn, for too much clothing interferes with freedom of movement and also induces a tenderness of the skin inviting colds and similar ills

The proper time for the Namaskārs is before sunrise with an empty stomach, for it is then that one's mind is fresh and one can have sufficient calm and quiet, as well as freedom from noise and disturbance from one's home and from outside. One should get up at 5 A. M., do one's washing and bathing, put on clean and light suitable clothing (the lesser the better) and do the Namaskārs, which one can finish five minutes before the sun rises, so as to be in a fit condition to absorb the violet rays of

र्रं उरसा शिरसा रप्ट्या यचना मनसा तथा। पद्भ्यां कराभ्यां जानुभ्यां मणामोऽशंग उच्यते ॥

CHAPTER III.

* THE BEST'EXERCISE - THE SURYA' NAMASKARS.

Taking into consideration all the disadvantages and difficulties mentioned in chapter II and after actually practising for a long time almost all the other forms of physical culture, it has been found that Sürya Namaskärs are practically the best. The present writer has derived considerable benefit from this exercise and therefore strongly recommends that all boys and girls over eight years of age and all men and women, irrespetive of age, should practise Sürya Namaskärs regularly and continuously

Every Position of Sürya Namaskārs involves deep, scientific breathing which broadens, deepens and strongthens the chest, which houses the heart and lungs. The heart and lungs cannot function at their best unless they have room enough to work in. A strong heart and a good pair of lungs make for vitality and endurance. Hence the superiority of Sürya Namaskārs over other exercises.

Not being content with developing your arms, chest and legs only, we figuratively take you apart and start to rebuild you from your heels up, inside and out.

^{*} Vide Chapter XVIII

Our system will give you the outward appearance of an athlete and the internal condition of a lion. It will tone up your entire body, regulate your organs and will give you a rioh blood stream.

People with weak heart or weak lungs will have their complaint permanently cured by Sürya Namaskärs when properly and carefully done with Pranava, Bija Syllables and deep breathing. The Sürya Namaskärs will also make the etomach, bowels, ekin and nerve centres function normally and will purify the blood.

Children, both boys and girls, until they are about eight years old, are usually so active that they keep their muscular system in fairly good tone and their various functions fairly normal, but after eight they need definite, regulated exercise and so they must be made to do Sürya Namaskärs irrespective of caste or cread.

Children with normal health from eight to twelve should do Surya Namaskars daily from 25 to 50; boys and girls from twelve to sixteen should do generally from 50 to 100, all persons above sixteen should gradually increase the number up to 300 according to their capacity. After sixty-five or seventy, however, one should do till death as many as one's bodily condition will allow. If this practice be devoutly and perseveringly observed, one can defy all preventable disease' and will be fit in mind and body as long as the exercise is kept up.

To do about a thousand Namaskārs a day for a few months and then to come down to about twenty-five or to give them up altogether, is positively harmful, even as to eat two or three times the usual quantity of food and then to give it up altogether, would be both foolish and dangerous The rules that govern diet and pastime apply to exercise as well. An exercise to be beneficial, should be taken daily, regularly, continuously and proportionstely to one's strength. It is the daily performance of exercise, physical or mental, that will produce the desired effect. It ought, therefore, to become a habit.

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the rising sun Or if po-sible, the Nama-kars may be done immediately after the suprise, exposing one's body - almost bare body - to the life giving ultra-violet rays of the rising sun.

It is not the boat but the light of the sun that heals. The excessive heat of the sun is enervating destroys appetite, promotes fever and devitalizes. The early morning hours and the late afternoon hours are best, because they irradiate and invigorate us with more light than heat. Hence the importance of unateruridan and environmental or the bank of a liver or lake or in the open.

Every physical exercise should be so taken that with about five to ten minutes' rest after finishing it, one should feel fresh and cheerful to do one's daily duties. In other words, one should exercise within the limit of one's strength. This golden rule particularly holds good in the case of Sürya Namaskars.

First Position — 2 अवस्थानम् — Spread a piece of thick woollen, silk or cotton cloth about 22 inches square on the floor. Stand facing the east, with feet and kapes

Composed by Mr D. V. Kulkarni, W A., B. T., Head Master, S. S. Righ School, Aundh.

[&]quot;अवस्थानं जानुनासं तत्रश्चीर्ध्यनिर्दाक्षणम् । षपुरनुलितपूर्वं च माष्टांगं नमनं परम् ॥ ॥ षपुं क्ष्मारसंकीतं क्ष्मोरोविंदतरस्ततः । पुनक्रवेंसणादीनां स्प्रान्तः क्षमत्रो भयेत् ॥१॥ हम्पेतरसर्तेः कृषीसस्वेंस्योपासनं नष्टः ।

Fig. 1.



1st Position (see page 12.) सदस्यानम्

Pressing in or squeezing the belly or abdomen will help to attain this Position correctly as well as to expel the inhaled vitiated air. While in this bending Josture, autosuggest that you are getting Health, Efficiency and Longevity. Exhale completely and audibly through the nose only. (See Fig. 2.)

The palms should be placed almost parallel to the aides of the cloth or at an inward angle of about 22° Some prefer a 45° angle, while others place the palms with fingers turned inside quite opposite to one another. Whatever be the angle, the bases or balls of the thumbs should be in a line with the toes. The palms thus firmly placed should not be moved till they are raised for the tenth Position.

Most persons will find it difficult at first to attain and retain this Position. If they can touch the toes with the tips of the fagers, that is enough to begin with. The practice should be persisted in till the palms just flat with the knees straight. First, the palms should be placed in position and then the knees should be straightened.

Though the finishing stage, viz., that of touching the knees with the nose or forehead will, at first, be found more difficult to attain, it can be mastered after persistent efforts. The benefit of the Namaskars can be realized only if this Position is correctly done.

A cortain amount of discouragement is inevitable at the beginning of all reconstructive systems of physical culture like Sürya Namaskärs. That period must be lived

Fig . 2.



2nd Position (see page 13.) जानुनासम्.

together and the toes touching the border of the cloth. Fold the hands against the chest pressing the psims against each other. Spread out the chest. Stiffen the whole body, especially the waist. Look straight. Keep the head, the neck and the body in a vortical line. Say the mantra - 3 = चा सिमाय नमः. Close the lips. Inhale deeply and audibly through the nose only and hold the breath, and do the remaining nine positions with the lips closed. (See Fig. 1)

All the ten Positions which constitute but ONE Nameskar, should be performed one after another with, out break and with the mouth shut and breathing through the nose only.

Have an image or picture of the sun or of the deity you adore hung up against the wall in front of you-should you have nothing to adore, paint in a vivid colour or colours on a cardboard a star or a circle and put it up in front of you, so that by looking at it you will gradually acquire the power of concentrating your mind.

Second Position — sugarity — Now holding the breath, bend over forward keeping the knees straight so that the palms, with fingers close together and the thumbs apart, rest flat about 20 inches apart on or near the corners of the cloth spread before you and in a line with the toes, making with fingers an inside angle of about 60° and touch or try to touch the knees with the forebead or ness, pressing the ground with balls of palms and keeping the knees quite straight

Fig 3.



3rd Position (see page 15) कच्चेक्षणम्

ieed stick-to it-iveness in this business of developing health."

Third Position — কম্মুল্ম — Inhaling deeply and audibly through the nose only and without bending the arms at the elbow, take one foct so far back as to keep

the arms vertical. Touch the ground with the knee and the toes, the other knee jutting ahead of the vertical

hrough perseveringly in order to win success. " You

arm from under the armpit. Let the whole sole touch
the ground. Look up bending the head as far back as
you can and curving the back and waist as much as you
can Press the ball of the calf with the lower part of the
thigh Hold the breath. (See Fig. 3.)

The same foot—say the right foot—should be

taken back first in the first round, then the left foot in the second round and so on alternately.

Fourth Position — deading — Holding the breath, take back the other leg and straighten both legs so that the big toes, ankles and knees touch each other. Keep the arms vortical Let the legs, hips, back and hind part of the head be almost in a line. Support the whole body on the toes and palms keeping the legs straight. Continue holding the breath. (See Fig. 4.)

Fig. 4



4th Position (see page 16.) বুজিনখু.

1 ig 5.



5th Position (see page 17) साधागम्.

Fifth Position— सारांगम — Holding the breath, place the knees on the ground without moving the toes and palms. Press or try to press the chin to the upper part of the chest. Touch the ground with the lower part of the chest and forehead simultaneously, keeping the tip of the nose off the ground. Draw in the belly so that it does not touch the ground and raise the hips as high as you can. Exhale completely and audibly through the nose only. (See Fig. 5.)

Sixth Position — কাষ্ট্ৰকাৰম — Keeping the toes, knees and palms as in Position 5, straighten the arms vertically. Inhale deeply and audibly through the nose only. Throw, the cheat forward, Curve the back and look up to the ositing, roof or sky, stretching the head as far back as you can. Hold the breath. (See Fig. 6.)

rig (



6th Position (see page 18) कशेरसकावम्

Sixth Position - क्रोइसंकोचम् - Keeping the toes, knees and palms as in Position 5, straighten the arms vertically. Inhale deeply and audibly through the

nose only. Throw the chest forward, Curve the back and look up to the ceiling, roof or sky, stretching the head as far back as you can. Hold the breath. (See

Fig. 6.)

Seventh Position — क्येश्विकसम् — Holding the breath, resume the posture as in Position 4 Slanting the arms (without moving the palms and toes), bend the head down and in so that the chin should touch the

upper part of the chest, and touch the ground with the heels keeping the legs stiff and straight. Continue

holding the breath. (See. Fig. 7.)

Fig 7.



7th Position (see page 19.) कहारुधिकसनम्

Seventh Position — দ্বাহাবিদ্দান্ — Holding the breath, resume the posture as in Position 4 Slanting

the arms (without moving the palms and toes), bend the head down and in so that the chin should touch the upper part of the chest, and touch the ground with the heels keeping the legs stiff and straight. Continue

holding the breath. (See, Fig. 7.)

Eighth Position - ऊर्घेक्षणम् - Holding the

breath, bring forward one leg keeping the arms vertical. Place the foot flat on the ground with the toes in a line with the balls of the palms (the further forward it is

placed the better) projecting the knee ahead of the vertical arm from under the armpit as in Position S.

Touch the ground with the other knee and toes and look up bending the back and waist as in Position 3.

Continue holding the breath. (See Fig. 8,)

Fig 8



8th Position (see page 20) ऋषेक्षणम्

Fig 9.



9th Position (see page 21) जाञ्चनाद्यम्.

Ninth Position — आनुतासम् — Holding the breath, resume the posture as in Position 2 and pulling in the belly, exhale completely and audibly through the nose only. (See Fig. 9.)

Tenth Position — अपस्थानम् — Taking a deep breath audibly through the nose only, resume posture as in Position 1. Take special care that you keep th knees quite straight till you stand erect (See Fig 10.

This completes ONE Namaskar, which is, as yo see, made up of TEN different Positions.

For the SECOND Namaskār, say loudly the nex mantra - ॐ दहाँ रवये नमः। Shut the mouth Inhal deeply and audibly through the nose only and repea all the Positions with the lips closed and breathing audibly through the nose only, as per foregoing instructions.

Surya Namaskars should always be performed slowly at first so that 'you know by' the strain which part of the body is being evercised.' In this way 'you will see that each part of the body is separately called into play.

SANSKRIT NAMES OF THE TEN POSITIONS ARE—

Positions I & 10- अवस्थानम् — Standing. " 2 & 9- जानुनासम् — Touching the knee with the nose.

" ३ % ८- ऊर्चेश्चम् — Looking aloft. Position 4 – तुश्चित्रपु: — Body-balance.

Position 4 - तुलितवपु: — Body-balance.
,, 5 - साष्टांगम् — Involving eight parts of the body.
,, 6 - क्रोडमंकीचम — Spine-compression.

,, 7 - फरेरियकसनम् — Spine-stretching.

Fig 10



10th Position (see page 22.) अयस्थानम्

CHAPTER V.

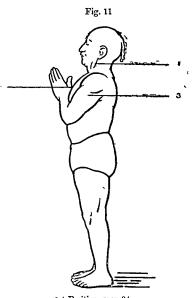
HOW THE NAMASKARS DEVELOP THE BODY AND MIND.

1. STRENGTHENING THE MUSCLES

In our effort to acquire superb health and increased vitality we depend upon nothing so much as on the use of our muscles. Muscles are the only parts of our body that can be controlled by us. When properly exercised, they not only get strong themselves but tend to increase the energy and improve the functions of all the other organs. Hence the importance of developing and invigorating our muscles.

Let us now see which part or parts of the body receives or receive stress and strein in each of the ten Positions, and which of the principal muscles or sets of muscles are brought into play. First Position — Though no special muscle or set of muscles is affected, the waist and neck have to be stiffened a little as the head, neck and the lower body are required to be kept almost vertical People with round shoulders or with a stoop in the back will feel an appreciable strain in the back. As lungs have to be inflated with deep breathing, there may also be a feeling of strain in the chest. Pressing the palms against each other calls the triceps into play. The upper arms, forearms, wrists and fingers have to be stiffened; allowing these parts to be loses and limp will nullify the exercise. You have to inhale deeply, hold the breath, and stand firm and erect.

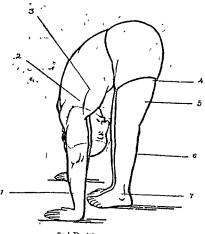
In this Position the muscles that receive some strain are sterno-mastoid, pectoralis major and miner and triceps. (See Fig. 11.)



1st Position, page 24.

Sterno-Mastoid. 2 Pectoralis Major & Minor 3 Tricep .

Fig. 12.



2nd Position, page 25.

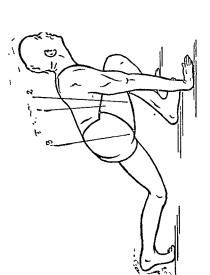
1 Brachto radialis 2 Trapezeus & subscapularis 3 Latissimus Dorsi 4 Giutei: musoles 5 Biceps I'moris 6 Hamstring (Lateral) 7 Tendo Achillis

Second Position - It is necessary to bend over with the knees straight till the palms are placed flat about 20 or 22 inches apart on the cloth at convenient angles, and in a line with the toes and to exhale completely The palms with fingers together and thumbs apart once placed are not to be moved until the erect posture is resumed at the end of the Tenth Position. You will find that in this Position the muscles of the calves, the rear part of the thighs, the hips, the waist and almost all the muscels of the back and spine receive a strain, which means a gradual development of these parts and the elimination of the uric acid and other toxins from those parts, where the roots of premature decay and decline find lodgment. Special strain will be felt on big muscles joining the back and shoulders. The triceps are also brought into action. Considerable stress is brought upon the abdomen, stomach and waist muscles, while pulling in the belly and stooping forward without bending the knees in order to place the palms on the cloth and to touch the knees with the forehead or nose. This bending over and placing the palms on the floor with straightened knees stimulates and strengthens the Solar Plexus. "The solar plexus is the great sympathetic nervous centre lying directly behind the stomach at the spot where the ribs divide." After bending and placing the palms on the cloth, think for a moment that you are surely getting Health, Efficiency and Longevity (auto-suggestion) and then proceed to the next move

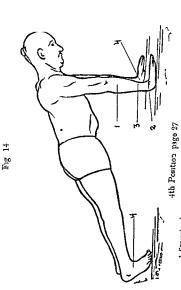
lowing are some of the muscles that hin in the second Position: Brachio-radialis, t. a, latissimus-dorsi, gluteii, biceps fimoris, hamatrin, (lateral) and tendo achillis. (See Fig. 12.)

Third Position — When taking back the right foot, the left thigh should press against the spleen and when the left foot is withdrawn the right thigh should exert a pressure on the liver. Similarly the muscles on the under side of the thighs should also receive hard stress. The withdrawn thigh as well as the ankles and wrists also get a portion of pressure.

The muscles strengthened in the third Position are muscles of the back, neck and throat, sartorius, tensor-fascise-latm and rectus-femoris. (See Fig. 13.)



3rd Position, page 26

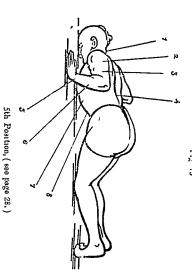


1 Supinator longus 2 Pronator teres 3 Brachielis of toes & fingers

Fourth Position — As the weight of the whole body is borne by the palms, forearms and toes, the following are some of the principal muscles that are brought into action: Supinator longus, pronator teres, brachialis and extensors of the toes. (See Fig. 14.)

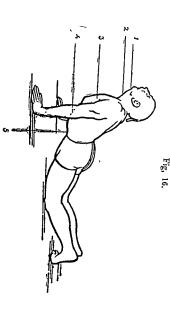
Fifth Position — When stooping, the head should be bent down, so that the ohin presses against the upper part of the chest. The bending forward and backward of the head exercises the muscles of the neck and throat tremendously. While prostrating, the whole of the body above the knees has to be supported by the hands, wrists and forearms, hence these parts get very strong It is at this time that the stomach is well drawn in and a complete exhalation is made. In this Position most parts of the body touch the ground, viz-the toes, knees, hands, chest and forehead, the belly is not to touch the ground, but has to be pulled up and the hips to be raised to the full extent, consequently all the muscles of the abdomen, waist and hips are strained and strengthened

Among the principal muscles strengthened in the fifth Position are—Brachio radials, pronator teres, intercostalis internii (internal thoracis), external abdominis, splenius capitis, deltoidius, triceps, and latissimu, dorsi (See Fig. 15.)



1 Splenius capitis 2 Deltoidius 3 Triceps 4 Latisslmus Dors: 5 Brachio ralialis 6 Ironator Teres 7 Intercestalis internii (Internii Tleincie)

8 Laternal abdominal s



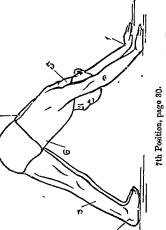
(Pectoralis Vajor) t Rectus abdominis 5 Other abdominal macei I Sterno-Tycldeus 2 Sterno Thyreoldes: 3 Transversus Thora is 6th Position, (see page.) ;

Sixth Position - In this Position, the back should be curved in as far as it will go, with a deep, slow inhalation, and the head should be turned up in order to look towards the ceiling or roof. In this Position the weight of almost the whole body is borne by the arms, hence all their parts, particularly the triceps muscles are fully developed, rendering the arms shapely, strong and supple. The chest also receives the benefit; it becomes wider and deeper. Owing to the strain and deep breathing the fat about the abdominal regions is gradually reduced. The girth of the chest increases, while that of the abdomen decreases, which is a sign of normal health. And as a natural consequence, all internal derangements such as liver and epleen disorders and bowel complaints, disappear. In this Position most of the muscles of the thighs, back, neck, and throat also get strong. As the head has to be bent forward and backward every time, all the front muscles of the throat and back ones of the nack are greatly developed. All predisposition to tonsillitis, caused and enhanced by wrong eating, gradually vanishes And it is believed that even scrofula might be cured by this exercise.

The sixth Position develops the following muscles: Sterno-hyoideus, sterno thyreoideus, transversus thoracis, pectoralis major, rectus abdominis and other abdominal muscles. (See Fig. 16.) Seventh Position — In this Position the muscles of the feet, calves, hips, waist, belly, back, neck and the upper parts of the arms are exercised.

This Position and the fifth, if properly done, will reduce the bulgy girth of the abdomen. Nearly all human ills originate in the abdominal regions. This need not surprise you when you reflect that practically all of the vital organs except heart and lungs, are situated in the abdominal cavity.

The principal muscles developed in this Position are: Extensor carpi ulnaris, lumber muscles, transvorse abdominis and other abdominal muscles, flexor muscles, such as gastroenemius tendo achillus and nock muscles, such as capitis brovis, etc. (See Fig. 17.)



1 Extensor carpi niuaris. 2 Lumber muscles. 3 Flexor muscles. 4 Tendo Achillis. 5 Neck musoles. 6 Abdominal musoles.

Eighth, Ninth & Tenth Positions — These Positions are like those Nos. 3, 2 and 1 respectively. How the belly and sides receive pressure when taking the foot forward is explained above under the third Position.

(2) Strengthening the Liver, Spleen, Lungs, Spine and Nerves.

When at the beginning you can do only one round, that is 25 Namaskārs, the feet should be taken back and brought forward alternately, so that both the sides of the belly and both the thighs will get the strain uniformly. When more rounds than one can be done the same foot may first be taken back and brought forward in the first round and the other in the second and so on.

If, however, the liver be not in order, it is advisable that the right foot only be taken forward every time until that organ gets normal. Those whose liver complaint is hereditary or chronic had better do so always. Similarly those who suffer with spleen disorder, hereditary or caused by malaria, etc., are advised to bring forward the left foot only. In this respect, however, one must use one's own judgment.

The fact that the 2nd Position is assumed after a deep breath and with the belly well-drawn in, has the special merit of pressing the lower part of the lungs and thereby driving the inhaled air to the upper parts of the lungs and thus thoroughly ventilating the remote corners, where the tuberculosis becilli generally

(8) Strengthening the Mind.

A vigorous mind in a healthy body is of greater value than any worldly possession. Life can be viewed from pleasant angles and problems and difficulties melt before the attack of mind determined to find a solution. The majority of men and women hardly realize the vast powers which lie latent below the surface of every human mind.

Will-force wields such a power in every human action that nothing can be done satisfactorily without it. Therefore the one predominating idea permeating throughout the performance of this superb exercise ought to be that before, during, and after the Namaskärs, both bodily and mental powers are being developed and that they will be utilised or turned to proper use ever after. While taking any physical exercise, it must be realized that every action or movement is bettering a particular muscle or part of the body, and all will-power and mind-force must be concentrated in that spot. To allow the mind to wander and to do the movements mechanically or listlessly will spoil the whole idea.

In the case of other exercises and games we concentrate the mind upon the correct performance of, or upon the excellence in, the game or exercise, while in the Sürya Namaskär exercise we devote our mind to secure Health, Efficiency and Longevity.

Long-continued Sürya Namaskärs done loosely or in a slovenly manner may give the body some benefit,

but the full development of every part, cure of disease, or removal of pain cannot be produced unless the whole will-power is brought to bear upon the particular part of the body while actually performing the Surys Namaskars. A sawyer or a blacksmith possesses muscles, but though they look prominent they often lack life and resilience. A long but loose and careless practice of Namaskärs might, in like manner produce a sawyer's muscles. To avoid this undesirable result, therefore, in each stage of the Namaskars the entire will-force must be concentrated upon every part, by turns, as it is being taxed during the exercise. Conceive that any particular muscle or part is getting stronger, firmer, better shaped or more developed, and the object will be attained within a short time. If the mind is permitted to wander during this sacred occupation, the result will be only a muscle-bound body for all the time and trouble.

CHAPTER VI.

THE APPLICATION OF SIGHT AND SPEECH IN-NAMASKARS.

The Use of Sight.

Sight is very useful in concentrating the mind. To secure exclusive or undivided attention of mind there might be cited Shri Krishna's exhortation to Arjuna in the Bhagavadgita,* "Look at the tip of your nose, don't look round here and there." While doing Namaskärs, therefore, have, as suggested elsewhere, an image of the Sun, a tutelary or guardian deity, a "swastika," a croes, a crescent or a white circular spot, hung up in front. When bendung the head down, the eyes are directed to the ground, and when stretching it up, the ceiling or roof meets the eye, but while getting up and standing, with hands folded, a definite object in front is needed to help in the securing of full mental concentration Sight is, therefore, regarded as a necessary factor of Sürya Namaskärs.

^{*} समं फायशिशेष्रीवं घारयन्नचलं स्थिरः। संप्रेक्ष्य नासिकार्षं स्यं दिशस्थानचलेक्षयम्॥ भगवद्गता, ६, १३,

⁽One should sat) holding the back, neck and head erect, immovably steady, looking fixedly at the point of the nose, with-out looking around.

The Use of Speech

The principal Mantras employed in Surya Namas-kars are —

- (a) Ōm It is called Ōmkar or Pranava (क्षेम, ऑकार or प्रणच It is written as ॐ) Every Bija Syllable or a series of Bija Syllables i
- invariably preceded by Om

 (b) The six Bija Syllables Hram, hrim, hrum,
 - hraim, braum and hrah
 - (च्हास, च्होस, च्ह्रस, च्होस च्होस्, च्ह) (c) The twelve names of the sun in the form of sulutation —

Mitraya Namah, Ravaye Namah, Suryaya Namah, Bhanave Namah, Khagaya Namah, Pushne Namah, Hiranyagarbhaya Namah, Marichaye Namah, Adityaya Namah, Savitre Namah, Arkaya Namah and Bhaskaraya Namah

(भित्राय नम , रवये नम , सूर्याय नम भानवेनम , स्वगाय नम , पूर्ण नम , हिरण्यमभाय नम मरीचय नम , आदिस्याय नम , क्षित्र नम , अकाय नम भास्कराय नम)

The meanings of these twelve names are -

(1) Mitra - Friend of all (2) Ravi = Preised by all (3) Sürya - Director or stimulator. (4) Bhūnu - Giving lastre or beauty (5) Khaga = Stimulator of senses (6) Pushan = Nourisher (7) Hiranyagarbha - Possessing power to develop energy and vitality in seman virile (b) Marichi = Destroyer of disease (9) Aditya

= Attractor. (10) Savitri = Begetter. (11) Arka = Fit to be revered. (12) Bhäskar = Refulgent.

It will be seen from the meanings of these names that they are all epithets of the Almighty.

- (१) मित्र (२) रिप (३) सूर्य (४) मानु (५) सग (६) पूपन् (७) हिरण्यार्भ (८) मरीचि (९) साहित्य (१०) संविद् (१२) बर्फ. (१२) भास्करः
- (d) The three hymns from Rigreda उदास्य नियमहः, etc, and one hymn from Yajurveda — हंस ग्राचि-पद्धस्तिरिक्षसत्त् etc.

The arrangement in which the Pranava, the six Bija Syllables and the three Vedic hymns or one hymn, just montioned above, are linked to the twelve names of the Sun, requires some elucidation for the reader to understand.

The three Rigveda hymns are, for this purpose, divided into twelve parts, es, उदाज्य भिषमहः, आरोहन्तुतरां दिवस, हहोगं मत सुर्य, etc., and the Yajurveda hymn also is divided into twelve parts, as, हंत: शुनिषत्, चसुरनारिक्ष-सत्, होता वेदियस, etc. (See end of the Book.)

The Pranava, Om (&), is used once or more than once in saying each of the 25 Namaskārs. (See Chart.)

One Bija Syllable precedes one name of the Sun.

One part of the hymn or hymns is also preceded by one Bija Syllable.

With two names of the Sun go two Bija Syllables and with two parts of the hymn or hymns go two Bija Syllables.

To four names of the Sun are prefixed four Bija Syllables and to four parts of the hymn or hymns are prefixed four Bija Syllables.

With twelve names of the Sun, said at once in the 22nd, 23rd and 24th Namaskärs, you are to recite the six Bija Syllables twice over and the whole of the hymn or all the three hymns, said at once, should also be preceded by the six Bija Syllables repeated twice. (See Chart and Unabridged Sürya Namaskärs at the end of the Book.)

On this scientific and convenient arrangement are based the unablidged Namaskārs as given at the end of the Book.

A Modified Course of Speech

First of all, note that the ten Positions given in the Book and in the Chart are to be done one after another without break and that they constitute but one Namaskār. It takes not more than 15 to 20 seconds to perform all the ten Positions, with the Mantras as given in the Chart Twenty-five such Namaskārs make one Round (आवत्त, āvartana), which will require about 6 or 7 minutes.

To do one Round of unabridged Namaskars, as given at the end of the Book, will take you a little longer time as you have, in addition to Pranava-and Bija Mantras, to recite therein the Vedic hymn or hymns and their parts.

A beginner will, of course, take a little longer time than a practised hand. You will notice that the Chart, which is intended to be used by people of every caste or creed, contains no Vedic hymns for the simple reason that non-Hindus might object to saying them They will be found, however, in the unabridged Namaskars at the end. As the Namaskar exercise, moreover, is feat becoming universally popular throughout the length and breadth of India, it bids fair to be accepted by all the educational authorities in the country as the most suitable exercise to be made compulsory in all their institutions. We have, therefore, purposely omitted the Vedic hymns from the Chart, so that it may be used by all Hindus, non-Hindus, Parsis, Christians, Mohammedans, Jews, etc.

Those who do not believe in the Vedas or who do not want to include Vedic hymns in saying Sürya Namaskārs, may say as follows:—

1 The First Series of twelve Namaskars (1-12) is done rather fast.

First Namaskār — On assuming the first Position in the Chart, say loudly and clearly the first Mantra: Om hrām Mitrāya namah, o the large man: Shut your mouth. Take a full, deep, audible breath through the nose only and go through the remaining nine Positions as directed in the Chart or Chapter IV, keeping the mouth shut and breathing all the while audibly through the nose only. When you have thus assumed the tenth Position it is the end of the first Namaskār and the beginning of the second.

Second Namaskär — Say the second Mantra: Om hrim Ravaye namah, ॐ च्हाँ रचये नमः। Shut the mouth Inhale deeply and audibly through nose only and perform all the Positions keeping the mouth shut and breathing through the nose only. The tenth Position thus resumed is the end of the second Namaskär and the beginning of the third.

Third Namaskār — Say the third Mantra: Om hrām Sūryāya namah, ॐ ऋं सूर्याय नमः। Shut the mouth-Take a deep, audible breath through the nose only and do all the Positions with the mouth shut and breathing through the nose only. The tenth Position thus resumed is the oud of the third Namaskār and the beginning of the fourth.

Fourth Namaskār — Say the fourth Mautra: Ōm hraim Bhānave namah, ॐ =हे भागवे नमः। Shut the mouth, etc. as above.

Fifth Namaskār — Say the fifth Mantra: Om hraum Khagāya namah, ॐ =हाँ खगाय नमः। Shut the mouth, &c.

Sixth Namaskār — Say the sixth Mantra: om hrab Pūshne namah, क्रें =द्व: पूर्ण नमः। Shut the mouth, etc.

Seventh Namaskār — Say the seventh Mantra: Ōm hrām Hiranyagarbhāya namah, ॐ व्हां हिरण्यभीय समः। Shut the mouth, etc.

Eighth Namaskür — Say the eighth Mantra: Öm hrim Matichayo namah, कें ब्ह्री मरीचरे नमः। Shut the mouth, etc. Ninth Namaskār — Say the ninth mantra: Ōm hrūm Adityāya namah, ॐ न्द्रं आदिखाय नमः। Shut the mouth, etc.

Tenth Namaskār — Say the tenth Mantra: Ōm hraim Savitre namah, ॐ दं सर्थिये नमः। Shut the mouth, etc.

Eleventh Namaskär — Say the eleventh Mantra; Om hraum Arkäya namah, ॐ न्हीं अभीय नमः। Shut the mouth, etc.

Twelfth Namaskār-Say the twelfth Mantra: Om hrah Bhāskarāya namah, ॐ च्हः भारकराय नमः। Shut the mouth, etc.

 The Second Series of six Namaskars (13-18) allows you a little more time.

Thirteenth Namaskār — Say the thirteenth Mantra: Om hrām-hrīm Mitra-ravibhyām namah, ॐ द्हां द्हीं मित्रद्विस्यां नमः। Shut the mouth, etc.

Fourteenth Namaskär — Say the fourteenth Mantra: Om brüm hraim Sürya-bhanubhyām namah, ॐ दं दें स्पनातुम्यां नमः। Shut the mouth, etc.

Fifteenth Namaskär -- Say the fifteenth Mantra: Om braum brah Khaga-püshabbyäm namah, ॐ न्हीं न्द: सगपुपत्र्यां नम: t Shot the mouth, etc.

Sixteenth Namaskär — Say the sixteenth Mantra: Öm hräm hrim Hiranyagarbha-manchibhyām namah, ॐंदां न्हीं हिरण्यगभैमरीचित्रमां नमः। Shut the mouth, etc. ार्।, Seventeenth Nemaekär — Say the seventeenth , Mantra: Om hrüm hraim Aditya-savitrikhyām namsh रू दू र्ट अदिसमितिस्थां नमः i Shut the mouth, etc.

Eighteenth. Namaskār -- Say the eighteenth Mantra: Ōm hraum hrah Arka-bhā-karābhyām namak ३१ -हों -इ. शकेमास्कराम्यां नमः। Shut the mouth, oto.

3 The Third Series of three Namaskars (19-21) affords a still longer period.

Nineteenth Namaskar — Say the ninoteent Mantra. Om hram hram hrum hraim Mitra-ravi-eurya bhanubhyō namah, ॐ च्हां च्हां च्ह्वं चे मित्रर्शिस्प्येमानुभ्यो नम Shut the month. etc.

ा Twentieth Namaskär — Say the twentieth Mantra Om hraum hrah hram hrim Khaga-pusha-hiranya garbha-marichibhyö namah, ७० च्हा च्हा च्हा द्यापूप हिरायसामस्रो(विश्यो नम । Shut the mouth, etc.

Twenty-first Nameskar — Say the twenty-firs-Mantra: Ōm brūm hraim braum brah Aditya savitrarkabhāskarebhyō namah, के दूं है दी दा शादिखसारिक के सास्त्रदेश्यों तम. I Shut the mouth, etc.

The Fourth Series of three Namaskars (22-24) takes the longest time to say.

Twenty-second Namaskār — Say the twentysecond Mautra: Om hrām hrīm hrūm hraim braum hrah, Om hrām hrīm hrūm hraim hram brah, Mitra-ravisīrya-bhānu hbaga-pūsha-hiranyagrabha-marlehyaditya-savitrarka-bhāskatebhyo namah, or zi vi vi vi vi न्द्रः ॐ न्द्रां न्द्रां न्द्रः न्द्रां न्द्रः भित्रदिख्यंमानुष्यापूरादिर्षयार्म-मरीच्यादित्यसंदित्र र्ममास्तरेश्यो नम् I Shut the mouth. Inhalo deeply and audibly through the nose and go through all the Positions as directed in the Chart with the mouth shut and broathing audibly through the nose only.

The twenty-third and twenty-fourth Namaskārs should be repeated exactly like the twenty-second.

V. The last, the twenty-fifth Namaskar.

Say the twenty-fifth Mantra: Om Shri-Savitrisitya-nirāyanāya namah, ॐ शीसविद्युवेनाराचणाय नजः। Shut the mouth. Inhale deeply and audibly through the nose and repeat all the Positions as above with the lips closed and breathing through the nose only. (See Chart.)

Thus you have now done twenty-five Namaskārs, which make one complete Round of Namaskārs (Avartana, आयुर्वन.)

The order, as shown above, of reciting the Mantras while performing the Namsskäre is so scientifically designed by our ancient Rishis that whatever be the number of Rounds of Namaskärs, one never gets out of breath.

When, therefore, the second Round or cycle is begun, one feels almost as fresh as, or even fresher than, when the first Round was commenced. This feeling of freshness is due partly to the invigorating influence of the lond and full utterance of the Pranava and the Bija Syllables and partly to the fact that the first Cycle has shaken off inertia of rest and sleep. Hence there is no loss of broath (though there may be a feeling of tiredness)

even after twelve or eixteen Rounds. This is a unique advantage afforded by the proper recitation of the Pranava and Bijas.

Then also the Pranava, Bijas and Hymns have to be recited in the standing posture with hands folded. During actual exertions, such as bending over, prostrating, rising, etc., all efforts are concentrated on inhaling and exhaling through the nose only and on autosuggesting that you are getting stronger and healthier.

The Unabridged Namaskars.

The followers of Rigveda and Yajurveda have Vedic hymns * included in the Sürya Namaskärs in addition to the Pranava and Bijas or Bija Syllables.

* The followers of Rigveda and Krishna Yajurveda say the following three hymns —

उदान्नय भित्रमह आरोहन्तुत्तरं दिवम् । ह्रद्रोगं मम सर्वे हरिमाणं च नाहार ॥ ॥ ॥ ह्रद्रोगं मिराणां रोवणाकान्नु दम्मति । अयो हारिद्रवेषु मे हरिमाणं निद्दर्भति ॥ २॥ उदगादयमादिस्यो विभेन सहस्रा सह । द्विपन्तं महां रम्ययन्मो अर्द दिस्प ॥ १॥ ऋषेद ११५०११-१३.

[I] Rising this day, O, rich in feiends

- ascending to the loftier heaven, Surys, remove my hear's disease, take from me this my yellow hue.
- [2] To parrots and to starlings let us give away my yellowness, Or this my yellowness let us transfer to Harital tree.

Continue? on next page.

This will make the exercise a bit slower and will enable you to put more strain and concentration on that part of the body you wish to strengthen.

Continued from previous page.

[3] With all his conquering vigor, this Aditya hath gone up on high,

Giving my foe into mine hand let me not be my foeman's prey.

- वा. यञ्जेंद १०१४.

इँसः शुचिपद्रमुरन्तरिक्षसखोता वेदिपद्तिधिर्दुरोणसद् । चृपद्ररसदतसद् व्योमसद्व्जा गोजा ऋतजा सद्रिजा ऋतं बृह्वेतु ॥

हुँस: =: Exhalation and Inhalation. शुचिषद् = Dweller in the purest place. वसु: = Making others' dwelling comfortable. अन्तरिक्षसद् =: Dweller in the mid-air (interior of the heart.) होता = One who gives and takes.

चेदिपद = Dweller in the alter (heart.)

सतिथि: = Moving constantly or having no fixed time of arrival and departure.

द्वरोणसन् = Residing in the protective element.

सुपद = Residing in man. यरसद = Residing in the excellent.

ऋतसद् = Residing in the Divine Law or Supreme Spirit.

स्पोमसद् = Residing in firmsment, सर्जाः = Producer of life-fluid.

गोजाः = Endowing senses with vital energy.

सतजा: - Maker of Divine Law.

आद्वित्राः - Giving birth to what is respected.

To those who have no faith in the Vedic hymes, we would advise to put their whole soul and will into each Namaskar, as given in the Chart, if they wish to roup the fullest bonefit from the exercise.

Controlling the Breath.

Correct and rhythmic respiration in performing Sūrya Namaskārs is absolutely necessary to produce maximum results.

Deep breathing is the first essential of healthy life. It improves the circulation, develops the chest, frees the lungs of toxins, stimulates the brain, steadies the nervos and gives an invaluable feeling of control and noise,

Continued from previous page

ऋतम् = Truth, right.

युहत् = Great.

These attributes are usually applicable to the Soul or Juratman (जीयात्म J., and as the Sun is regarded in the Vedas as the soul of all that is movable and immovable, they hold good in the case of the sun also

The highest goal of the Sun-adorer is ultimately to identify himself or herself with the Soul or Jivatman

> (१) योऽसाचादित्ये पुरुष सोऽसावहम्। — वा वजेंद ४०। १७.

> > The Spirit yonder in the Sun, The Spirit dwelling there am I

(२) सूर्य भारमा जगतस्त्रस्थवक्षः।

-- ऋनेद १।११५।१.

The Sun 18 the soul of the movable and of the immovable

Try, as you breathe deeply, to imagine that you are drawing in something infinitely rare and soothing and something so exquisitely potent that you feel its effects with every breath.

Breath is Life - Breath is Strength-as our Upanishads say:

प्राणो वै यसम् । 🕒

— गृहदास्थ्य उपनिषद ५।१४। ४.

े ^{भारत}प्राणविंछम्। - -

— महानाः उपनिषद् २१। १

Full instructions about regulating and controlling the breath will be found in Chapter IV, but being mixed up with directions about the different movements of the body involved in assuming the ten Positions. they may not be grasped by a beginner; we, therefore, try to explain them here graphically or rather in a tabulated form to make the matter clearer.

You might have marked from the detailed instructions both in the book and in the Chart that there are three deep complete breaths (प्राणायाम) in doing one Namaskar, i. e three full Inhalations of breath (परक). three Holdings or Retentions (क्रमक), and three complete Exhalations (रेसक).

We shall, for convenience sake, designate these three stages of breath by their initial letters: I for Inhalation; H for Holding the breath, and E for Exhalation.

The following table will show how these breath stages occur in each of the first nine Positions:

3 — I, H 4 — H 5 — H, E

Position	1 — 2 —	I, H H, E	}	First complete breath.
			_	

Second complete breath.

A beginner need not worry over regulating and controlling his breath in going through all the ten Positions until he can, with a little intelligent practice, do the movements correctly-almost automatically. Then he will find it easy to manage his breath.

CHAPTER VII.

HEALTH THROUGH SPEAKING.

STRENGTHENING THE VITAL OPGANG.

There must now be described the wonderfully healing and vitalizing powers-physiological as well as psychic-possessed by the apparently meaningless Pranava, Om and the Bja Syllables or letters, hrām, hrım, etc., and how they influence several organs, such as the heart, stomach, brain, etc., and how they serve not only as prophylactic (preventive) but therapeutic (curative) as well.

(a) \overline{Om} , $\stackrel{*}{\Rightarrow}$. This sacred syllable begins every Mantra of "Prānāyāma", sometimes every letter of any Mantra, and often it stands at the beginning and end of a Mantra. The syllable " \overline{Om} " is regarded as the essence of all Vedic learning *. The o in the word home resembles the sound of o in \overline{Om} .

This "Om" precedes every Bija syllable or a series of it. It regulates and develops the heart action, atimulates the brain and stirs up the stomach. This

> * ॐ इस्तेषासरं प्रसः ज्याहरन् मामनुस्मरन्। यः प्रयाति त्यजन् देहं स याति परमां गतिम्॥ भगवद्गीता, ८। ११

He, who, reciting "Om", the one-syllabled Brahman, (and) meditating upon Me, goeth forth, abandoning the body, reacheth the highest goal.

sacred syllable might be more accurately transliterate as "ocommm" as a prolonged O and prolonged M. The same is the case with the utterance of all the Bije Syllables.

(b) Next comes "hrām", = gi. In this all the sound are long. The correct pronunciation like a in calm is 'hranammm.' The aspirate sound "h" proceeds from the heart. Everytime, therefore, you say "hram "the heart vibrates vigorously. The process of purifying blood takes place in the heart, for the pure blood that run to any affected part of the body is pumped out by the heart. If that blood is made pure before it reaches the affected or diseased part of the system, then only the desired result will follow, i. e., the cure of the affection or malady. Should impure or toxic blood circulate through the body the affected or diseased part is likely to get worse instead of being cured. Every Bija Syllable, therefore, is made to sound with the initial aspirate "h" with a view to vibrate and strengthen the heart so that it should pump out pure blood only.

Just as each Bija begins with the aspirate "h" it ends with the labial nasal "n". Every normal respiration has to be made through the nose. It is this respiration that also helps to purify the blood. The oxygen taken in with each inhalation coming in contact with the veinous blood, renders it pure and red, and there is breathed out carbon dioxide, a poisonous gas, from the impure blood. As respiration is done through the nose and wind pipe, both of these organs should be kept free and unaffected by ailment or disease, and it

is for this purpose that each Bija is made to terminate in the continuous or prolonged nasal "mmmm".

Likewise in each Bija there stands the lingual "r" between the initial aspirate "h" and the final nasal "m". The consonant "r" is held almost as important as "Om" in the Mantra-Shästra. (Mantra-Shästra is that which teaches prayers, hymns, mystic formulm, spells, etc., to be addressed to particular deities.) In uttering the consonant 'r' (3) the tip of the tengue strikes the front palate and tends to vibrate the brain. Hence the proper utterance of the psychic syllables "hrām" "hrīm," etc, vibrates and invigorates the heart, wind-pipe and brain—three of the vital organs, the soundness of which is necessary to keep the system strong and healthy.

There is an elegant couplet, *in Sanskrit eulogizing "hrām" which when freely translated means — "The mere utterance of "rā" (τη) in hrām drives out sin-toxins from the open mouth, and being afraid of its re entrance the consonant 'm' (η) serves the purpose of a door by closing the lips."

In reciting the Bijas one has to open the mouth for "hrā" in hrām, etc.; and to shut it for "m." Then while actually making the movements of the body in doing the Namaskārs, all breathing has to be done through the nose and not through the mouth.

राकारोद्यारमात्रेण मुखाधियाति पातकम् ।
 पुनः प्रवेशमीत्या च मकारस्त कपाडवत् ॥

The continuous long vowel " \bar{u} " (x_1) in hrām (as a in calm) strengthens the upper three ribs, purges (maker physically and spiritually clean) the alimentary canal of toxins, vibrates the brain, drives away lethargy (morbid dullness) and cleanses the upper portion of the lungs by stimulating them. This Bija "hrām" " \bar{u} " prove a curative for asthma, bronchitis and for predisposition to pulmonary tuberculosis.

- (c) The long vowel sound "i" (\$\frac{1}{2}\$) in hrim (as \$ce\$ in seem), \$\frac{1}{2}\$i, stimulates the action of the throat, palate, nose and the upper part of the heart. The repetition of "hrim" clears the respiratory and digestive passages of the phlegm secreted or collected there. In the first or second round of Nameskärs it is sometimes, if not often, necessary to eject the superfluous mucus from the nose, throat or mouth, but after about two rounds the respiratory passage is thoroughly cleared.
- (d) The long vowel sound " ū"(云) in hrūm (as oo in room), 云, effectively excites or stimulates the liver spleen, stomach and intestines, and reduces the abdomen. Women suffering from chronic disorder of hypogastrium (the lower region of the abdomen), will immensely profit by repeating "hrūm" loudly and fully.
- (e) The compound vowel sound (d) of the mystic syllable "hraim" (as i in time), =\(\frac{\varphi}{2}, \) irritates the kidneys. The repeated utterance of "hraim" in the Sürya Namskärs premotes urication or serves as a diurctic.
- (f) The compound rowelsound(sh)of the Bija "hraum" (as ou in round), the acts on the rectum and anus and

ielps them to function normally. As progress is made in Scientific Surya Namaskārs, it will be found that the bowels that were reluctant in their function before bathing will freely open after about half an hour or so on finishing this exercise

(g) The last but not the least is "hrah," = ; , which vibrates the chest and throat

Thus all these seemingly meaningless Pranava and Bijas produce stimulation and vibiation in different vital parts of the system, such as the heart, abdomen, womb throat, palate windpipe, brain, etc., purify their blood. and consequently remove disorders, ailments and diseases in those regions. Almost every disease will be found to originate either in the head, nose, throat, heart, lungs or abdomen When all these parts are purged of their impurities or toxins by the Pranaya and Buas, the circulation of the blood receives stimulation by the vigorous movements of the limbs and organs in the process of Namaskars The limbs and organs, brought into play, not only develop externally in shape, size and strength, but improve also in their internal functions, endurance and power of iesistance to disease, by reason of the vigorous and healthy circulation of the blood

The body is not completely functioning if the vocal cords are left silent. Moreover, the vocal cords when vibrating extend their influence beyond themselves to every corner of the body

Thus the Sūrya Namaskārs produce a double benefit, which is a unique feature of this wonderfel exercise. No other single exercise can approach the Sūrya Namaskārs in this respect.

Summary.

The Pranava Om () stimulates all the vital internal organs of the body, especially the brain, heart and stomach.

Hrām (egi) acts as a stimulus to the brain, heart, alimontary canal, respiratory organs, such as nose, windpipe, throat, lungs, &c., and upper ribs.

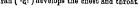
Hrim (= af) invigorates the threat, palate, heart, respiratory and digestive organs.

Hrum (= k) strengthens the liver, spleen, stomach abdomen, hypogastrium, uterus and intestines.

Hraim (के) stimulates kidneys.

Hraum (च्हें) normalizes the function of the rectum and anns.

Hrah (=:) develops the chest and throat.



CHAPTER VIII.

A EUROPEAN SCIENTIST'S EXPERIENCE.

The following experience of a European Scientist will convince you of what we say in regard to the potential powers of the mystic Bija Syllables. It is an extract of the article written by B. M. Lesser Lesario in "Physical Culture" Magazine for April, 1924, edited by Bernarr Macfadden. New York:—

I breathed my way to health; so you can.

I was born in Vienna. In early childhood I was delicate and inclined to be overstudious at school-a vice which is well enough if you keep it in its place. In my case it was considered a virtue; and they let me subsist on an unlimited diet of books till my digestion, both mental and physical, went to pieces, and left me a wreck.

From then till eighteen I was never well. At eighteen my troubles took the particularly acute and agonizing form of articular rheumatism. Doctors gave me up as hopeless.

But one day I made a discovery. I found that there was actually such a thing as the Breath of Life. I discovered that it was neither a metaphysical abstraction nor an ancient scriptural phrase, but a living fact, for which I had thirsted unknowingly.

Breath is Life.

Breath is life. Control it and make an art of it, and you have under your hand a throttle that gives you mastery of your whole being. To move a threttle is easy, if you know where to find it. It is my life work it teach others to find it and to make an art of its use. Hence this story of my return from the edge of my grave. It is not a theory; it is the tale of a thing that happened. Act on it and you may have a story of your own to tell. Sometimes it is hard to act—I know that. But this, I repeat, is easy—as easy as breathing. So to my story.

What the Baby Said.

When I was sighteen and suffering from acute rheumatism, a neighbour brought her infant to our louse and laft it there for several hours in our care. The presence of the healthy child diverted me and made me forget my aches for the time. I found this baby lying on its back looking at the ceiling and ever and anon lulling, "lah, lah, lah, lah, in,"

Iasked our servant girl to undress the child and bring it to my bed. She did so. Propping myself up as well as I could, I drank every inch of its beautiful little body with my hungry eyes. It was as God had made it Nothing had warped it yet. I compared that marvel with my own blasted and withering carcass, which so lacked beauty that it was repulsive to me, its owner.

The baby looked at me and went back to the serious business of life, cooing and singing to itself, "lah, lah, lah, lah, lah, "I was delighted. I held my breath to listen.

Presently I noticed something. Every time the

ibration in the region of the upper three ribs. It ocalized there. I tried it on mysolf, and felt the same thing. This was interesting. I tried another vowel sound, saying "poo, poo, poo, "many times, and felt that here the vibration localized itself further down. Then I tried to teach the baby to articulate something like "poo, poo, poo, "etc., in the hops that I could more closely observe the result of it. At first I got no results at all but after two hours of coaring, I did finally get it to say what I wanted. The vibration was in the abdomen.

I wondered how the utterance "lah" gave a pronounced vibration in the upper chest, and "poo" in the abdomen. Along with that I reasoned, perhaps the mero act of singing that repeated vowel sound produced a sympathetic nervous reaction of a very far reaching sort in other parts of the child's body. Perhaps it reached important nerve centres. If so, there was no telling how enormously significant the thing might be.

Two things were evident. First, the repetition of that sound by the baby went with a mood, a mental attitude of some sort, however elemental, the child was happy. Second, that vibratory effect was astonishingly pronounced. I noticed that the child would keep on saying "lah lah, lah," continuously without taking breath; and that when its lungs were reasonably empty, it would draw a full breath and begin again. One result of this was a prolonged holding of air in the lungs; and another result was a steady prolonged contraction of the abdominal muscles and the diaphragm.

Copying The Baby.

I began forthwith to try out various vowel sound on myself. Lying there like a baby and trusting in Nature, I hummed and sang those wordless monotone for minutes at a time. At first I could not stand much of it, it made me dizzy, but gradually I became used to it. One thing I always tried to do was to assume a mental attitude that seemed to me to go with the vowel sound I used. "E", for instance, would be bright and cheerful. "O" seemed to go with feelings darker and more grave-but, of course, not melancholy or gloomy.

When weeks later I began to recover from my rheumatism, I was uncertain whether my new hobby had anything to do with it or not. But there was no doubt at all as to its immediate effect on my general feeling. Invariably it produced results quite definite. I became perfectly sure that something was getting itself done inside of me. All my bodily functions seemed to run more smoothly; and some of the vowel sounds I practised had effects which were very local and evident indeed. The "E" type, for instance, resulted in the discharge of cosiderable quantities of mucus from the throat and bronchial passages These discharges continued till those tissues regained their tone. How and why they regained it? Perhaps this method of combined breathing, humming and right feeling had helped to normalise the circulation. Perhaps one vowel might work on one part of the body and another vowel on another part. Perhaps the various vowels I was using would cure my whole sick body. In that case, I had avidantly hit

upon a way to control the internal circulation and my sympathetic nervous reactions at will. Basically, it seemed a way to drive the blood in nourishing floods to any spot where the starving tissues might need it.

Thirty Years' Proof.

At that time I could not be certain of all this; I could only hope and believe. But today, thirty years later, I can affirm it positively. For I have put it to the test of use hundreds and hundreds of times. With it I have cured myselfand with it I have cured others. To-day I can drive the blood to any spot in the interior of my body at will, for the purpose of either restoring or maintaining normal tiesue tone or normal activity. The technique which I have developed after these many years of experiment and research is definite, it is simple, it is "as easy as breathing," it is as easy as saying "lah, lah, lah, lah, lah, lah, lah,

An adequate circulation of rich, healthy blood is the central requirement on which every natural and normal therapy must be based. Every adequate method of healing is a device for restoring a normal circulation to starved and poisoned tissues; and the immediate and specific cause of death is a failure of the circulation which may be induced, unfortunately, in scores of different ways.

What I want first to establish most vividly is that any technique by which it would be possible for a man to control his circulation, to drive it hither and you at will, would be the most patout single instr

health that could be placed in his hands. It would not be the only condition of health, but it would be the most immediately useful and important of them all. Having thus a means of control, he would henceforth be like an engine-driver with his hands upon the throttle.

What I have found in my system of vowel breathing is a throttle for the control of the human body; and it acts by governing the internal circulation.

Imaginary or Real.

Does it really control, or do I merely imagine the control and so benefit from a vivid bit of auto suggestion? I answer from the experience of thirty years that the control is real, and that the proof of the pudding is in the eating. Try it. If you stand up and breathe deeply through your nose eight or ten times, emptying your lungs as completely as possible, you will experience certain definite sensations. If you are not used to the exercise, dizziness will be one of them. You will, as it were, get drunk on oxygen. The dizziness will be caused by changes in the circulation. If anyone should try to tell you that it was the result of any auto-suggestion, you would laugh. You would understand that the breathing had done it. The same is true even in a greater degree of my method of vowel breathing, which is quite different from any other method of breathing and produces other effects which are important, and which are apart from the mere taking in of oxygen. For instance, it produces, as I have already said, reactions of the sympathetic nervous system. Singers experience such reactions and that is one reason why singing is beneficial The sympathetic

nervous system controls both the circulation of the blood and the activities of the endocrine glands and of the vital organs. My method of vowel-breathing puts it to work.

Perhaps I should make this reference specific. The man who doubles his fists and scowls can easily pass himself from a condition of mental and physical placidity to one of anger. His face flushes, his heart beats faster, his adrenal glands pour stimulating harmones into his blood, his circulation alters. The sympathetic nervous system has been put to work. In like manner, he who shapes his lips into a smile and his eyes to twinkle, may change his mood. Similar is the case with the assumed feeling of love, pleasure, fear, melancholy, etc. All this change of mood is due to the reactions of the sympathetic nerves.

Our daily speech by which we express what we think and feel, is based on the five rowel sounds, A. E. I. O. U. Each uttered emotional sound, therefore, goes with and produces a definite effect on the sympathetic nervous system.

What is violin, the most powerful emotional instrument in the world save the human voice which it so resembles, but a device for the uttering of vowel-sounds? What are the violin-sounds but vibratory effects? And if you produce chosen vibratory effects with your own voice in your own body, who shall place a limit on the things you may do to yourself?

Have you ever cheerved the action of a dog, deer or snake when certain tunes are played? Vibration? It

would be a daring man who would set a limit to the mean ings and uses of sounds—sympathetic, significant and mystic sounds.*

Such is the foundation on which I have built. Would you try the application of these ancient truths ² Here then, is the method you must use.

Vowels for Health.

You first imagine the vowel; you imagine it emotionally. Then you hum it. Each vowel so imagined so hummed or breathed, has its own particular field of action.

The "E" type affects the palate, throat and head.
The long "A" type as in "ape;" reaches the gullet,
throat and larynx.

The broad "A" type, as in "father," touches the upper part of the lungs and chest.

The long "O" type, as in "on," goes deeper into the lower lung, chest and diaphragm.

The "OO" type, as in "school," works on the liver stomach and intestines.

All told I have worked out thirty-two sounds and combinations which can be applied according to the needs of the individual.

The method of their application is simple. It consists of four stages, as follows:—

First, you prepare yourself as for a sacred action. By that I mean that you collect and concentrate your

^{*} These are what are called "Mantras" in India.

thoughts on the particular feeling appropriate to the vowel This is uttorly essential. Without it the exercise is far less effective. Suppose, for instance, that you are starting with "E". Assume with your mind and with your countenance, a light and happy expression, with your lips half smiling, and your eyes narrowing and showing your pleasure. Let there be nothing enigmatic about this Let it have no mystery and no reservations. Make it real. If you should try to combine with the "E" the mood that goes with "O" or some other vowel, the exercise would be robbed of its effectiveness, both for your mind and for your bedy.

Second, having prepared yourself as for a sacred action, you inhale, with shut mouth, on this soul-formed gesture. The breath taken should be deep and complete. Try "E" in this manner.

Third, hold your breath; hold it for one, two. three or four seconds, according to your condition, and what you can easily do Later you will increase the time. While holding your breath, keep your mind clearly on the vowel. There is a reason for this, as you will find when you have become more experienced with the method. The inculuntary organs which are affected by the particular vowel you have in use undergo a certain tourion and certain changes in the blood supply owing to the activity of the sympathetic nerves you are setting in action by your thought of the vowel. If this sounds absurd I can't help it. I am dealing with facts, The thing happens. It has been tested out in the laboratory by the most delicate instruments known to science; it

has been put under the X-Ray by the great Professor Hajek of Vionna; and the result is a simple matter of record.

Internal Massage.

This change in the internal blood supply is a kind of internal orthopsedic massge. It cleanses, it removes waste matter, and it carries nourishment and building material to starving and ill-nourished cells. It is mild, it is gentle, and the rasults, if persisted in even for a few weeks, are amazing.

Fourth, having prepared yourself by visualizing the vowel, and having next inhaled upon that vowel, still visualizing the vowel, you now exhale, humming the vowel itself and never releasing your imaginative hold upon it For instance, "P-EEEEEEEEE", etc., till your lungs are as empty of air as you can readily, make them without extreme effort. Repeat the whole operation and try doing it every day before meals.

Do likewise with "PEOOOOO -HOOOOO", etc Note the shift to the asprate "H". It gives an extra unpulson which is important The "PEOOOOOOOO" type should be uttered as if it were being blown cut through pointed lips The appropriate feeling to go with this wowel is grave which does not mean anything decressing or melanchely.

I cannot too strongly insist that this method should be done exactly as I have described It is as easily done right as wrong. Done wrong, it is worthless In an article of this scope, it is not possible to give all the vowel combinations and their uses. I can however, set down the most important. They more than cover the needs of most persons.

The "E" type has its effect upwards. It acts powerfully on the heart and the brain. It is especially suited in cases of headache, and for some forms of heart trouble. It has an excellent effect on persons of the so called billious type, those given to moodiness and irritability.

The "A" type as in "labor" cleanses and renovates the throat, larynx, and glottis. This type is especially popular with singers, teachers and others who continually use their voices It gives tone to the mucous normbranes involved. It acts on the thyroid gland, the enlargement of which is known as gottre, and I have seen hundreds of cases of gottre of long standing blown away, so to speak by the persistent use of this exercise.

The "A" type as in "lah" works on the gullet life the upper theer ribs, and stimulates the brain. It Prevents heart-failure and has pronounced effect on the upper lobes of the lungs, where tuberculosis generally starts and should be used by persons predisposed to it. This same type is indicated for persons who have to work in a bent attitude and in badly ventilated rooms,

The combined "AO" type as in " water " goes somewhat deeper It ribrates the middle of the chest. It is beneficial after pneumonia or pleurisy, and clears up the scars which these diseases leave.

The "O" type as in "God" influences the region of the heart. The gesture is one of awe. The type should be applied only after preparation and proper directions.

I have worked out a special exercise for vibrating the heart, which I call 'mmmmm-POmmmnm'. This may only be done once a day, and should be avoided by persons with a weak heart until they have worked up to it by exercise "mmm POmmm PAAAAEEEEEEEE".

The "OE" type, as in the German word Moive, works on the diaphragm, liver and stomach region.

The combined "OOII" influences the kidneys and is felt plainly as an upward orthopaedic massage. The "V" is the German modified U, as in Uebel. If you have never learnt this sound, start to say "u" and make it "ye" instead, holding your lips as if for "u" and you'll have it.

The "OO" type as in "smooth" acts on the organs of the whole abdomen I call it the abdominal type. It can cure constipation of long standing Women find it beneficial in its effects on the polvic organs.

The combined "OO-EE" type acts directly on the rectum and restores tissue tone of that often neglected and abused part.

Beginners should start with the "E" and "OO" types five times each before meals. Sick persons will find three times enough.

Later come the three types "E" "AI" and "A." These I call life's trable accord, because they are beneficial to everybody.

CHAPTER IX.

Instructions for Women in Special Conditions.

Every woman has to pass through two critical periods of life, viz., the time of the first appearance of menses and the period of natural cessation of menstrution. The former occurs generally between the 13th and 16th year of the girl and the latter between 45 and 50 years of age. This latter condition is known as "Menopause" or Change of Life.

Both these conditions are often accompanied with painful ailments in the case of formles who do not observe the rules of health, such as diet, exercise etc. But the girls who have been taking systematic Sūrya Namaskūr Exercise since their childhood regularly and continuously, are found to be entirely fiee from this periodic menstrual trouble And in the case of elderly women who took to this drune Exercise even late in life, all menstrual disorders and ailments vanished and their menopause was natural and therefore painless.

Dysmenorrhea (difficult and painful menstruation) is a wide-spread complaint. It incapacitates and decreases efficiency and leads to much loss of time to those who are in business. In such cases most help will come from the Sūrya Namaskār Exercise, which invariably improves the posture of the body and strengthens and from the much and ligaments of the pairie region.

and spinal column better than any other measure And this Exercise, when done with deep breathing, will bring the disphragm into play, will mobilize the parts and free the circulation of the pelvis

An interesting summary was given in a recent issue of the "Lancet', and it shows the significance of painful menstruction in daily business life. An inquiry was made into the habits of 7000 women working for a Life Assurance Company to see why so much time was lost through this complaint It was shown that among the total number of employees there were 1151 days of absence and 2670 periods of rest during a period of six months, simply as a result of this complaint Exercises were instituted as a method of treatment and the simple exercise of contracting and expanding lower abdomen without any special creating movement was sufficient to bring about a definite improvement, so much so that 90% were benefited by this treatment and there was a decrease of 53% in the loss of time to the Company The doctor in charge reported that exercise definitely benefited and decreased incidence of pain

As we strongly recommend the Namaskar exercise for women—young and old maids and matrons, whether pregnant or not, and whether sucking babies or not, the following instructions, based on actual experience, will be found useful to women foll in special conditions

1 The Namaskar exercise should be suspended during the menstrual period, riz, from the time the menses actually begin to flow till they stop the normal

period being from 4 to 6 days. The exercise should be recommenced immediately after the cessation of the discharge.

2 If a lady is in the family way she may continue the Namaskar exercise as usual till she completes the fourth month of prognancy From the fifth month to the end of the sovonth, the exercise should be modified, viz, instead of prostrating herself, she should at from the standing position and kneel down and do other morements, the bust in this case may or may not touch the ground From the beginning of the eighth month till child-birth she should sit or squat in any way convenient to her and only receits the Mantras loudly and clearly several times without doing any movements.

3 Even after the suspension of the Namsakir or other exercise, no pregnant veman should sit or lie down in lazinese, but should do light and pleasant work, such as domestic duties, walking in the open, garden

work etc almost till child-birth

This rule applies to a gul or woman who is nawell, i.e., affected with catamenial discharges

4 1 or two or three months after partinition or child birth the mother should not do the Namaskirs After this period she can safely resume the Namaskar exercise gradually increasing: till she reaches her usual number within about two or three weeks. Resumption of the exercise after child-birth should be undertal enon the advice of the doctor.

- 5. Whenever a girl or woman cannot take or is prevented from taking any bodily exercise otherwise than by ailment or disease, she must, as a rule recite the Mantras loudly and devoutly five, seven or nine times daily.
- A woman should not begin to learn Sūrya Namaskār Evercuse in her gestation period She may do so before or after that period.
- Apart from the above special conditions, womenmaids or mations-should follow exactly the same rules that govern men in performing the Surya Namaskārs

CHAPTER X.

Replies to Sceptics.

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With the Peshwas disappeared the hardy race of 19 Bapu Gokhales, the Bhawanrav Pratinidhia and the lahadji Sindes, and they were succeeded by a race of revernment officials, whose birth, training and tradion were diametrically opposed to their predecessors. his new nobility held up before their children the ideal f study at the cost of health, of success in examinations, and of securing Government service. They laughed and scoffed at the health and animal spirits of their own and their neighbours' boys and delighted to taunt young men with being fit for carrying water and doing similar monial offices in the house of their more fortunate (because of early examination-passing and early Government service getting) brethren This attitude towards physical erercise was the dominant feature of the last two or three generations, and one is not sure that it has disappeared altogether even now. Signs of hope, however, are clearly discornible in the present young generation in their love of sports, gymkhanes and the boy-scout movement. But one feels doubtful how far these movements have developed a real love for physical health and efficiency.

A conquered nation gradually losss its self-confidence and ultimately becomes almost a blind follower of the conquering nation in its superficial forms of conduct and vices and not in its characteristic virtues such as patriotism, self-sacrifice, unity, self-respect, etc. It these degenerate days, people who have lost confidence in themselves are fond of railing at their ancient culture Most men are swayed by the fallacious argumen that had their ancient civilization been good and sound, they would not have been reduced to the present deplorable condition. When some colightened and cultured persons even make light of our ancient civilization, it is no wonder then that the common run of people, especially the young generation, should entertain the same view, and try blindly to ape the foreigner in almost everything, and not only betray mimicry in the mode of eating, drinking, dressing, talking, walking, etc., but think that their own religious ideas and conducshould be moulded according to the Western pattern. But being quite ignorant of what works exist in our ancient Vedic, puranic and scientific literature and of what subjects they treat, the ordinary people can hardly be expected to know or search for the secrets or truths our literature of divine authority contains. Adding importinence to ignorance, they turn up their nose at and even vilify our Vedas and Shastras, disparage our ancient culture, and stigmatize our Purans as " Shimga elang," and as a consequence, give up or try to give up their ancient culture all at once. Such is the degeneenting influence brought about by blind imitations of the Wast

On the other hand, those who had full faith in the Mantra-Shastra and studied our books such as Rudra-yamala, Patanjali's Yoga Shastra, etc., were not able to make their teaching acceptable by presenting it in terms of modern medical and hygionic science.

We had, therefore, to wait till a Coue appeared to teach us the value of "Japa" or a constant meditation upon an idea, or a Lesser Lesario came our way to tell us what psychic and therapoutic values were contained in the Bija Letters, or a Haddock appeared to instruct us in the value of will-power, or a James arose to enlighten the world in respect of the science of psychology. Any one who reads the works of these authors even cursorily and compares their teachings with those of our ancient "rishis" will not fail to be struck with wonder at the deep wisdom of the latter and to bow down his head in speuchless adoration.

Quite unsrmed as they were with the mechanical appliances available to modern science, our "rishis" discovered truths which elicit our warmest admiration today. A few of the most striking are herewith cited.—

(1) It might be news to most of our readers to be told that the catheter is mentioned in the Atharva Veda, whose antiquity cannot be brought later than 3000 B. C., and that the surgeons of the times of the Rigyeda could fit up a metallic leg to a woman se as to enable her to more about.*

* (१) प्रतिज्ञंबां विद्युत्ताया अधराम् ॥ And a new leg for Vishpala provided. Rigyeda 1, 118, 8

(२) चरित्रं हि चारियाच्छेदि पर्णमाञा खेळस्य परितयम्योगे । सचे। जंग्रामायसी विद्यलाये घने हिते सतेये प्रत्यचस् ॥ कृत्व, १, ११६, १५

When in the time of night, in Khele's battle a leg was severed the a wild bird's pinion, straight ye gave Vishpela a leg of iron that she might move what time the conflict opened.

—Rig Griffit P, 156

- (2) The ancient Rishis appear to have known something of higher mathematics also. They were very fond of using a phrase which may be rendered:—" If infinity be subtracted from infinity, the remainder is infinity." †
- (3) There is a story in Purans that Soma married the 27 daughters of Daksha and that foun of then brought forth the four planets-Mars, Mercuty, Jupiton and Venus It was only the great astronomer Bentley who could read in these marriages a concealed reference to the conjunction of the Moon with the several planet in those constellations. Bentley's calculations were checked by Hindman and it may now be asserted that the Puranic story refers to astronomical phenomens which took place within the course of sixteen months about 1424 and 1423 B. C
- (4) We learn from the testimony of Greek historians that at the time of Alexander the Great there were physicians or Vaidyas in the Punjab who could successfully cure cases of snake-bite, and whom Alxander was perforce compalled to engage when his Macedonian physicians confessed their inability to deal with such cases.
- (5) The reserches of Mr. Clements and the late Rao Bahadur Deval of the Philharmonic Society of Western India, are well known to many. Rao Bahadur Deval has shown that the theory of harmonical progression as worked out by the Indian author of the "Sangita

[†] पूर्णस्य पूर्णमादाय पूर्णमेवायशिष्यते ॥

Athakar" may be described almost in the same words sed by the great physicist Helmholtz. And it should se temembered that the author of "Sangita Rathakar" and no tuning fork with him.

(6) Modern researches in science, conducted by aminent scientists like Sir Jagadish Chandra Bose, have proved that the Moon exerts her influence on the regetable Lingdom.

In "Physical Culture" for April, 1927, Bernarr Macfaddon savs :--

Only recently have scientific men found that the light of the Moon, being polarized or reflected light, has a very stimulating effect on regetation, so that the old belief of the farmers that root crops should be planted in the dark of the Moon, and feliage crops in the light of the Moon, would seem to be borne out in spite of what scientific men have hitherto dubbed as rutto appreciation.

Mark what Shri Krishna says in this connection in his Gita, Chapter XV, verse 13 -

पुष्णामि चौवधीः सर्वा सोमो भूत्वा रसात्मकः।

I, in the form of the Moon, who is the very life of all the vergetable essences, rear the whole plant world.

The foregoing instances will doubtless suffice to convince a thoughtful modern sceptic of how solern, deep and far-reaching are the thoughts of the ancient rishis and authors of India, and that he must think thrice before scotling wholesale at the ancient Vedic and Puranic hiterature.

Nor is it suggested that the reader should take

things on trust Everyone can do the Suija Namaskār with the Bija Syllables and see what benefits accrue

Further Objections Answered.

One often hears men and women, who ought certain by to know better, asking, in all seriousness whether physical exercise is advisable of necessary in the case of women, children and old men whether Mantras have any practical value whether there any necessity of the sun to fix one's mind upon etc, etc Sich objections will now be answered

1 Exercise for Women,

To these who hold that women do not need any oxercise it should be emphasized that womanthe mother—is, as the Indian posetsays, 'The mise of heroes and great men 1, and that you cannot expect a weak and sickly mother to bear healthy, strong and long lived children. The summum borum a girl should aspire after is to become a good strong, healthy mother Motherhood is a divine privilege. It is only a strong and healthy mother that will bring into the world splendid, healthy and stalwart children.

The physical standard of any nation is based upon the general physique of its women

Is the present generation of our young girls and women a model of physical perfection? No ene can deny that they are not

¹ नारीनिंदा मत करो। नारी नरकी खान ॥ जिस खानसे पेदा हुवे। ध्रुव पेद्रलाद समान ॥ — Kabic

Is it not a fact that in most cases they come of parents who have rarely enjoyed normal health?

Is it not a fact that so-called girls' schools in the cities' are no more than mere pone, in which they are made to sit three hours in the forenoon and two hours in the afternoon with no adequate provision for outdoor play or games, which are all the more necessary since the old mode of life is changed and girls no longer take their part in laborious household duties, such as grinding and pounding corn, drawing or fetching water, doing the family washing, etc., and when the old games such as—phugadi, zimma, kombda, etc., are no longer in favour?

Is it not a fact that the modern girl attains what may be called a diseased precocious mental puberty long before her body is properly developed to enable her to fulfil her duties as wife and methor?

Is it not a fact that many of our young women and girls fall victims to the dreaded tuberculosis and other diseases!

Is it not a fact that our maids are averse to marriage because of the duties of motherhood?

Is it not a fact that there is a general dread of motherhood in the minds of our young wives, nay, young wives throughtout the world?

Is it not a fact that there is an appalling infant mortality amongst our city dwellers?

Is it not a fact that very few young mothers are able to suchle their children and that the widely-advertised "foods" have to be depended upon simply because the mother is a mother when she is hardly fit to be one?

Depicting the present generation of civilized young women, John Galsworthy observed in his novel, 'The Silver Spoon,' "Flat as board behind and before." This still holds true of the vast majority of young women from Chuna to Peru.

Londors of nations like Musselmi of Italy, Hitler of Germany, etc., are shifting the emphasis to feminine physical culture, because no race can be fit unless both the parents are equally well-equipped physically and mentally.

The only remedy to improve this most deplorable state of things is to put our gurls and women through a scientifically designed course of physical culture like our Sürya Namaskärs There is no doubt at all that girls and young women derive benefit from these Namaskärs. Indeed, cases are known of matrons of fifty who only after a short course of these Namaskärs have almost regained their youth Hence for maid or matron, for sweet seventeen or ripe forty, Namaskärs are the ideal exercise.

To those readers who can afford it we recommend at least a cursory perusal of numerous magazines and books on physical culture that have recently been published in India, Europe and America and of the large output of interature about the science of engenics All who study these carefully will be convinced that the same course of physical training as is prescribed for men is also beneficial for women, with, of course, a few minor adaptations

Girls & women in great numbers have benefited from Sürya Namaskirs in bodily and montal health and in general appearance We wouch for this personally

2 Vital Capacity Limited.

Many people are afraid of doing physical exercise lest they suffer from heart affections indigestion, or be muscle bound Recently papers also are devoting articles to discussions about professional athletes and weathers dying prematurely of heart trouble indigestion, etc

To these alarmists it can be replied that none of these evils is due to any system of exercise, let alone Surya Namaskars Most Indian pahilwans are obsessed with the notion that one who can do 500 ' dands or " Jors" is necessarily stronger and healthier than one who can do only 400 though the latter might really be the stronger and healthier of the two Dominated by this wrong idea, the pahilvan always seeks to advance his muscular system over his vital capacity, and as a necessary consequence suffers either from heart-affections or muccle binding As to indigestion the number of victims claimed by this ailment is very large indeed The pahilvan's logic is that the more food he can con sume the stronger he is While youth and vigorous ex ercise continue, his faulty logic appears to him convin ong enough, but when age comes on and forces upon him the wisdom of reducing his exercise, he is yet unwilling to learn the more important lesson of reducing his diet

also Instances of hatmful jeffects from exercise, are mostly due to over-eating, wrong eating, or to stimulating and other devitalizing excesses. It is this love of gormandizing that is responsible for all the ills from which a pahilwan - and many an ordinary person as well-suffers in after life. The system of exercise has absolutely nothing to do with it. Dissipation kills an athlote or pahilwan, athletics or exercises do not.

Beinair Macfadden in his 'Book of Health, 'says:There is no more dangerous falled; in the world than
the idea that the strength of the body is maintained solely by
our daily food, and consequently that the more we eat, the more
strength we have This is by no means the case. In fact, 'it has
been demonstrated that those who cat last, are often possessed
of the greate energy.

" Vyāyām" a monthly magazine of Batoda, published in its Match, 1925, issue a brief account of Captain Phanindra Krishna Gupta, There it says:—

In his efforts to surpass his rival attlietes and wrestlers, he ate too much of hard foods by way of regimen like other wrettlers and was soon down with indigestion Now he does 2000 'dands' and the same number of 'battlanks' every day and yet his daily dot! is very simple and apparently mesgro consisting of rice, pulse and a little fish, like that of an ordinary man.

Thus professionl wrestlers and athletes ruin their lives in both ways: by over-exercise done too fast and by over-eating.* Many athletes die in middle life because of heart-strain and over-eating. It is one thing

^{*} The truth is well borne out in the Marathi proverb—
" প্রবাহ বার্ট্ সম্বান জাই, " Cf. " Modern man digs his own 'grave
with his both."

to be strong and quite another to be healthy. Many people confuse strength with health.

It is, therefore, that our wise ancestors have included the Pranava, Baja Syllables and Vedic Hymns in the Sūrya Namaskārs. These Mantras, etc., in addition to being prophylactic and therapoutic, keep one from ever-strain. When systematically performed, a round of 25 Namuskārs accompanied by the Pranava, Bija Syllables and Vedic Hymns, will not take less than seven or eight minutes.

Let all alarmists, editors and our critics, therefore, take courage and address themselves manfully to a course of Sürya Namuskārs, and there can be guaranteed to them a vigorous youth, a hearty and active old age, and, more important than either, healthy children

3. Giving Publicity to Wisdom

Some Dharma - Martands (Knights Errant-Erringof religion), who pose as the preservers of our Veder
religion, charge with sacrilege those who are making
these Bija Syllables, Pranava and Vedic Hymus known
and accessible to the non-Brahmans. To these it
should be pointed out that when their sacred books
have been studied from cover to cover by savants of
Germany, Trance, England, America &c, it is no part
of wisdom to keep such knowledge from our own people,
Brahman or Non-Brahman. The shastras contain many
Powerful mantias, but they yield their fruit only to him
who possesses the necessary courage and perseverance
to pass through the severe discipline required. A mere

knowledge of the words and syllables is useless, for it must always be immebered that you get out of your exercise, as you do out of life, what you put i to it.

It may also be pointed out that the Brahmans of old have been rightly or wrongly charged with deliberate concealment of wisdom from their non-Bishman brethien It is not necessary here to examine the justice of otherwise of this charge, but the fact should be impressed upon our readers that nothing should give us more genuine pleasure than to see our non Brahman brethren do these Surya Namaskars To the Brahmans at should be pointed out that when intelligent and scientifically ininded foreigners lile Lesser Lisario have, by altogether independent lines of research and enquiry, lighted upon the secret of the vowel sounds or the indimentary Bija Syllables, it would be the height of folly to conceal the wisdom of the 'lishis' from then own people

4 Building Good Foundations

It is hardly necessary in these days to emphasise the necessity of physical truining in the case of young boys and gills. The foundations of a healthy physical life should be laid as early as possible and it is fai wiser to form habits of exercise and health than to seek for lost health, when it is perhaps too late, and then to iail against exercise or one s misfortune.

5. Practical Way of Postponing Old Age.

The case of old people stands on a footing of its own. There are men and women who have reached old age after a clean, plain, useful and stranuous life, and to such it is suggested that they submit themselves to a moderate course of Sürya Namaskārs in order that their useful and active life may be prolonged so as to enable them to accomplish the beneficial objects which they have at heart.

There is another class of old people on whom sendity is forced by misfortune in the shape of compulsory residence in crowded cities, sickness, berearement or other reverses in life: to such the course of Sürya Namaskärs is eminently usoful in that it ministers not only to the body but to the spirit as well.

The third class of prematurely old men consists of those who have played ducks and drakes with their health and youth and have thoroughly ruined their constitutions and have been given up by doctors. Even to these old sinners there can be held out a promise of redsamption, if they be like children and follow faithfully the course of Surya Nameskärs.

It has been said that people begins to die the moment he is born. The inevitable end, however, can be postponed for a long, long time, if only we learn to rid ourselves of the products of decay; by proper exercise, simple natural diet and clean life. If we ever neally learn to do this, we should, barring accidents, live far beyond the limit of one hundred years.

It is not more longavity or extension of life that counts, but whether one has achieved a great measure of usefulness and happiness, whether one has made any contribution to the world's well-being and whether one has been doing all what one can do for oncesif and for mankind at large, is what matters. This can be achieved by systematic, regular and daily performance of Sūrya Namaskārs with Planava, Bija Syllables and Vedic Hymns.

. The Value of the Sun.

The Sun is the source of all life. "To have good health you must have sufficient sunlight. For pure morning and evening sunlight builds rich blood, tones up the entire system, clears the skin, builds resistance to disease and gives you the glowing energy and appearance of radiant youth".

A great majority of the present generation, however, say why the sun should be bowed to and that Mantras and Tantras are all humbug, "I have," said a gentleman to the writer recently, "absolutely no faith in the mantras. I won't say any mantras in doing Namaskārs." These are simply referred to Lesser Lasario, already metioned, and to what Ernst Hacekel, a most determined free-thinker and scientist of

Germany, says in his famous work "The Riddle Of The Universe," Chapter XV.

Haeckel says :-

"The sun is the desty of light and warmth on whose influence all organic life insensibly and directly depends Sun-worship (solarism or heliotheism) seems to the modern scientist to be the best of all forms of theism, and the one which may be most easily reconciled with modern monism. For modern astrophysics and geogeny have taught us that the earth is a fragment de tached from the sun, and that it will eventually return to the bosom of its parent. Indeed the whole of our bodily and mental life depends, in the last resort, like all other organic life, on the light and heat of the sun Hence in the light of pure reason, sun-worship, as a form of naturalistic monotheism, seems to have a much better foundation than the anthropistic worship of Christians and of other monotheists who conceive their god in human form. As a matter of fact the Sun-wershippers attained thousands of years ago a higher intellectual and moral standard than most of the other theists. When I was in Bombay in 1881, I watched with the greatest sympathy the devating rites of the pious Parsees who standing on the sea-shore, or kneeling on their Prayer rugs, offered their devotion to the sun at its rise and setting "

Had the great philosopher scientist observed people like us actually doing Sūrya Namaskārs, he would certainly have been much more sympathetically impressed.

The following additional quotations will convince the sceptic reader why the sun in particular is held as the object of worship in our Sürya Namaskärs —

July, 1926, says. .-- Roney in "Physical Culture" for

"Dathe your body in the sun. The Sun is the greatest of all healers. It is the source of all health, says science."

- "And today, throughout the world, tuberculesis, pneumonis, eczoms, colds in the head, and pulmonary disorders generally are being cured with regularity, speed and certainty by this new method called Heliotherapy."
- (iv) Dr. Hess, the foremost authority in America on the curative powers of the Sun's rays, declares:—

"Sunlight is the source of all foods, the sumulant, tonic and healer incomparable. Educate the public to an understanding of its importance to health and the entire race will be better, healther and happier.

- "Sun, Air and old Mother Earth, the new studies are teaching, are the tranty through which mankind may be revitalized and recreated. That all three have definite therapeutic values upon which the human organism is dependent for its physical, mental and spiritual well-being, science knows."
- (v) Dr. Rollier, the founder of the "School in the Sun", in Switzerland, is a pioneer of the realm of heliotherapy sun cure. He was one of the first to discover that sun-light was just as necessary to the growing child, and to everybody else too for that matter, as it is to the growing plant, and in exactly the same way, that is, in direct contact with the skin.

Dr. Rollier observes :--

"Sun-bailing ought to play just as important a part in the school programme as gymnatic work, and the two can often be combined. Recreation and physical training should be so arranged as to have the benefit of the early morning sun, and the children should take them with their bodies exposed."

-" Physical Culture" for Aug. 1926.

- (vi) Leonard Williams, M. D., says, in his article
 'Vitamine in the 'Encyclopaedia Britannica", New
 clumes, Twelfth Edition:-
- "It (anti-scorbutic factor) is present in large quantities in laccooked fruits and vagetables, and it is interesting to note that is Popular idea that the foods which larve been Lassed by the Sim are a greater value than those which have not, finds some justication in the first that vogetables grown above ground are much where in the auti-scorbutic factor than root vegetables."
 - (vii) "Scientific American, " April, 1927, states -
- "The null of cows fed and kept indoors all lay does not some enough of vitamine D, which is essential to growth and "Allia and which processing the the produce this vitamine D a cowneed to get out of doors into the ultra-valet light of the Sun"
- (vm) Dr S H Belfrage; M D, in his book "What's Best To Eat!" p 26, says —
- "The electrical energy which pervades the living universe is the form of kight and heat. It is under the influence of this energy derived from the Sim that the diad material of the universe beorius endowed with safficient energy to form himmy matter."
- "Under the influence of the similable and by the virtue of its mu_smi energy, the plants kint together the lifeless elements-ozgan, livelyon, irro, phosphoras, etc.—into compound substances from which the higher forms of life can build they fodges."
- Alms we see that the filant world is a vast electrical accumulator from which the animal world derives its energy and that that energy—the energy hat we expand every moment of our lives—is illimately derived from the San."
- (17) "All energy on this earth, organic or inorganic, is directly or indirectly derived from the SUN. The flowing water, the driving wind, the passing clouds, the rolling thunder and the

flashing lightning, the failing rain, snow, dew frost or had, the growth of plants, the warmth and motion of animal and huma bodies, the combustion of wood, of coal all is but solar energy laction.

- Char es F Haanel
Author of The Master Key System
* The Ne v Psychology &c.

(τ) "Our God, the Sun, is beyond all defilement and beyond the reach of the most brutal iconoclast."

-V R Guttikar

(x1) "San-worship is not idolatry "

-V R Guttikar .

(zet) "There mention some of the diseases in which I myscale and other men have found these rays [ultra-violet rays] of
value Skin ulcors, baidness, eccama, posiniss, large, etc. Almentary system-ulcors of stomech, backmorthoids Consumption and
tuberculous Weak circulation and some heart affections Catarrhi
Neurasthoine Eir and eye cases. Throat cases Melauchulia Neuritis, &c &c.

-J Stenson Hoo er M D (Lond) in Health and Filiciency for June 1978

(vm) "The Sun is the original source of all life. Take the planets When one considers for a moment what the sun has made possible, what the wan has actually brought about and perpetuates, it is little wonder that this light of all his should receive humble homage in the form of sun-worship by primitive peoples.

"Babies are strongthened in every organ, tissue function and cell by sualight Their resistance to disease is heightened to a tremendous degree when their bodies are expected to the sun's health giving rays

-Dr f C Gray M D in 11 ye cal Culture for Aug 1978

xiv) Ultra-violet rays of the sun or ultra-violet spectral

as are the only rel able source of vitamin D. Vitamin D is berbed by the blood when the bare skin is exposed to the sun of rays from a quartz merceny vapour generator. Also foods sposed to such rays absorb and relain vitamin D. This vitamin investis and cures in children, rickets, deformity, bone disease, usens, under-nourishment and other forms of mineral malchinition. And in the case of adults, this vitamin provents and cures stdo-inforcation frequently terminating in rheumatism, neursits disbetes, Uright's disease, &c.

> - Dr. H C. Monkel, M. D., in "The Oriental Watchman & Herald of Health" for October, 1924.

(zv) An Italian proverb runs --

"To bathe in water is good, in air better, but in similalit but fall ".

(zer) Look to the sun for health and happiness!

All creatures and plants—human, animal and vegetable his—thrive in the beneficient rays of the glorious orb

-- Dr. Benedict Lust, M. D, Editor, "Nature's Path, "Sep. 36

(Nu) If still the reader entertains a doubt about the value of this sun we refer him to Janes Arnold Crowther, M. A., Sc. D. P. Isat. P. Prof. of Physics, University of Reading, England, who kays in "The Great Design" (1931) P. 47.— "Radiations do not only travel, they carry energy with them ... Our power to act, our carry life in fact, is bound up not with the limited and diminaltyling energy stored up in the cooling planet on which we live, but with the bountful supplies which radiation brings to us from the sun".

7 Cheapness.

Some who take a cynical view of Surya Namaskārs say that this exercise is made much of on account of its cheapness. But is cheapness a morit or demerit? Will not the cheapness place the exercise within reach of all?

Yes, Sürya Namaskärs cost nothing. But cheapness is not the sole merit they claim; it is one of the many merits which make the exercise superior to any other. (See Chapter XVI.)

This excellent exercise develops not only the muscular system but the entire nervous system as well, and makes all the important glands and other internal vital organs function normally.

"Until quite recently very little was known about the action, secretion and effects of what is known as the endocrene or ductless gland system upon the human body. But science has at last shown us that forces which govern life both physical and mental-the forces which promote the growth of the body and make or unmake beauty of face and symmetry of bodily form -are secreted by the glands of the body."

Hence it is not the cheapness alone upon which the supreme importance of the Surya Namaskars is based.

8 Monotonousness.

Another objection recently raised against the Sūrya Namaskārs is that the exercise is monotonous and uninteresting.

It will be admitted that it is todiousness and workisomeness that bring in or produce monotony. The Namaskār exercise, which according to our system requires from 15 to 30 minutes only, consists of a large number of different springlike, quick and buoyant movements of the body, giving tone to each and every part of it, can never be monotonous in any sense of the word.

We don't see why this should be so any more than eating, drinking, clothing, or anything else we have to do every day. A considerable amount of pleasure can be derived from this Nameskär exercise, if it is undertaken in the right shirit.

Besides we have to put our mind in every movement while doing the several positions of the exercise, which yields a good amount of interest throughout the time that we are doing the Namaskärs.

Mind and body must be developed and strengthened to the very limit in order to bring out one's innate ability. By adhering to the Sürya Namaskar Exercise in this way the spirit of youth can be maintained nearly to the end of life. When the enthusiasm of youth can thus be retained beyond middle age, we are indeed Possessed of wealth that cannot be measured.

The value of mind and will is too important to be overestimated in the performance of any bodily exercise and especially in doing the Surya Namaskars.

The observation of F. G. Haddock, M. C., Ph. D., will further elucidate our point Says he in his great book, "Power of Will".

State of Will depends upon the condition of Physical health

Physical health is a goal of science and is reached through the resolute and persistent Will

Every rule of health deliberately followed becomes a developer of Will-Power.

Thus readers will see that in the exercise of Namaskärs, using the mind in every movement and thinking of Health, Efficiency and Longevity are essential to give proper results. Mind is, therefore, included in the eight parts into which Sürya Namaskärs are divided. (See Chapter IV) Mind is really the Creative Force, back of great strength, health and happiness.

In addition to developing mental concentration, the Sūrya Namaskār exercise has so many phases of vital interest that it need never become monotonous to the intelligent student. It builds up your physique, noimalizes your bodily functions, distributes and conserves your energy, increases your disease-resisting power and it short gives you the glowing spirit of youth. If you wish to attain these worthy ends, you should make a hobby of Sūrya Namaskārs—the best course of physical and mental culture.

To be free from worry or tiredness and to keep healthy and fit for years together without an ailment-without even ordinary cold or cough—is a supreme happiness. And when this is attained by doing Sūrya Namas-kārs regularly and systematically, can they be called monotonous and uninteresting?

9 Religious Tint.

Some atheists and non-Hindus shun the exercise of Namaskars on the ground that it is a religious rite.

It is true that the Namaskar exercise has an appearance but an appearance only of a religious rite. But

it is not essentially a roligious rite. Bathing and deep breathing are regarded by the Hindus as religious duties, as they give cleanliness, beath and energy. Is lathing or deep breathing then ever taken objection to by atheists and non-Hindus ? We must, with discretion, make a clear distinction between things essentially religious and those, which being good in themselves, are for that reason included in daily religious duties, and are, therefore, only apparently religious. Rules of health have nothing to do with dogma or blind religious faith.

Those who still object to saying the Pranava Lija. Syllables and Vedic hymns in doing Sûrya Namaskars, might substitute for them the vowel-seunds recommended by B. M. Lesser Lesario in chapter VIII., or any similar combinations of sound, or drop them without detracting much from the exercise. Omission of these syllables and hymns from the Namaskars will, we hope, smooth the non-Hindus' path to Health, Efficiency and Longevity.

There can be no two opinions that in these days of keen strugglo for existence, an eupeptic stomach is tho best equipment for a young person to afart life with and it can only be maintained if a course such as that of Surya Nameskare is religiously or rigorously adhered to.

In this way the Sürya Namashars, apart from any religious or spiritual benefit, will make for Health, Efficiency and Longevity.

CHAPTER XI.

· PERSONAL EXPERIENCES.

Our Own Experience.

When young we studied wrestling under Imam Uddin, a well-known professional wrestler from the Punjub. We also practised "Jor," Baithaks" and Indian clubs, but in accordance with the accepted doctrines of the old school of wrestlers, we used to partake of unnocessary fatty foods and thus put on an excessive amount of fat. In 1897 we read about Sandow, a famous physical culturist and purchased all his apparatus and books, and for full ten years practised regularly and continuously according to his instructions, with the result that the chest measurements remained the same, while those of the waist and abdomen showed a marked reduction. Since 1908, being influenced by the fact that a man advancing in years generally cannot spare sufficient time for athletics and finds them too fatiguing, we have been continuously, regularly and systematically doing Surys Namaskars every day with Pranava, Bijas and Vedic hymns and the result has been a most remarkable lightnoss of body, buoyancy of mind and a general feeling of youthfulness which must be experienced to be understood. But the highest benefit is that during the past 25 years, we have been, except once in may 1935, when a short illness was brought about by accident, absolutely free, not only from fevers and other ailments, but never even suffered from a cold or cough which is regarded as inevitable even by some professional medical mea-And the most surprising proof of the stamins and



Balasaheb Pant Pratinidhi, R A Rajasaheb of Aundh, (Age 72)

he resisting power of the body lies in the fact that hough we submitted to plague inoculation no less than our times we had no fever and experienced no sort of ascular pain sufficient to prevent us from doing our daily Namaskats. We submit that this 35 years' experience and study has qualified us to speak with n measure of authority that of all the systems of physical exercise, the Surya Namaskats stand first and foremost in promoting vigorous bodily and montal health and in endowing one with an equanimity of mind which is not railled even under extrems conditions.

Now that the mystery of the Pranava (\overline{O}_{11}) and the Bija Syllables (hräm, hrim, etc.) is clearly selved, we can positively affirm that Surya Nameskārs stand far superior to any other system of sorcive.

The statement that during the past thirty-five years we have had except once, absolutely no admend of any kind whatever, would naturally make the read desfrous to know what we est, how long we work, how, in short, we spend the 24 hours of the day.

Here is our Dally Routine of Living.

3 to 3-30 A M. — Getting up, washing the mouth and tooth and bathing.

3-30 to 4-30 A. M. — Sürya Namaskira. 4-30 to 5-30 A. M. — Morning worship.

5-30 to 6-30 A. M. — A brisk barefoot walk up and down the hill, 600 feet high, where stands our family Deity.

fast consisting of fresh cow's

Secretaries, disposing of

	milk, with Ranisaheb and children.
7 30 to 9-30 A. M. —	Going over the daily post and giving orders about State affairs.
9 30 to 10-30 A. M. —	Hearing newspapers read, while painting.
10 30 to 11-30 A, M, -	Dinner.
11-30 to 12-30 P. M	Reading.
12 30 to 1-30 P. M	Siesta or midday rest.
1-30 to-2 30 P. M. ~	Literary work: writing, com- position or other studies.
2-30 to 3-30 P. M. —	Official work:- Correspondence. Examining the daily routine work of all the

3 30 to 4-30 P. M	Superintending sculptural, photographic, block-making and other art works
4.30 to 6 P M -	Kinton aless market 1 mais

4-30 to 6 P. M. — Kirtan class-work and music

6 to 6-30 P.M.— Gazing at the sun and avening worship.
6-30 to 7-30 P. M.— Evening meal consisting of

cow's fresh milk only.

7-30 to 8-30 P. M. - " Hearing magazines read. 830 P. M. to 3A. M. - Sleep, which comes on with all soundness within five minutes after resting the head upon the pillow. We rarely dream.

Il vigorous health, buoyant energy, freedom from lisesse and useful longevity are to be attained, the daily physical exercise should be coupled with simple, frugal, vital diet.

Breakfast

Our breakfast consists of about two cups of cow's milk, warm and fresh from the udder (without being boiled or sterilized or mixed with sugar) and s little cream with honey.

Dinner.

A little of boiled whole brown rice (rice with husk only removed and not pearled or even polished); only a half whole-wheat chapati; very little of whole pulse (entire grain with the thin skin adhering to the edible part) in the form of varan (* uco), amis († auzi , or usal (1300), &c; one or two green (uncooked) and cooked vegetables without spices & condiments, a little of milk and milk products, such as curds, or churned curds, butter, ghee, kadhs, (\$ wat) &c; and fruits, if any, constitute our dinner.

A highly tasieful dish of pulse.

A dish consisting of gram-flour boiled up with temarind, some spilt pulse enconnut, &c.

A dish consisting of pulse boiled and fried with greens, etc. A dush consisting of a little gram-flour boiled in charmed curds spiced with turmeric, corn

Fruits.

Whenever available, a little quantity of fruits a nuts, such as mangoes, guavas, pomegranates, grap pine-apples, figs, oranges, almonds, cocoanut, peanu etc., is taken with meals.

When fruits and nuts are added to meals, t quantity of rice, chapati and pulse is proportionate lessened.

Fried Articles.

All fried articles, such as, fritters (পু সর্রা), chiv (| বিষয়), jilbee (৪ জিজবী), etc. and even phoda (+ দৌরলী) are generally excluded from our dietary.

. Water Drinking.

Wo drink fresh, cool, spring water scented with son fragrant flower, as rose, jasmine, etc. We never drin water at meals but always an hour after meals at whenever we feel thirsty between meals.

Many ignorantly think that if a sufficient quantit of beverages other than water be consumed, water t such may be dispensed with. There would be no greate fallacy. It must be emphasized that from a nutritiv point of view there is no subtitute for pure water.

A medley of various parched grains, ground-nuts, eccounts appead and fried together.

\$ A kind of rich sweetment made from soaked white flour mixes with a dash of saffron, fried in ghee and soaked in boller liquid sugar.

 Oil or ghee heated with a little quantity of assafulide, mustase seeds, etc. as a cooking sauce for vegetables, etc.

A small quantity of salted batter of gram-flour, mixed with this slices of brinjal, onion, etc., fried in boiling ghee or oil, a fritten.

We eat nothing between meals, not even fruits, which, if any, are taken with meals.

Stimulants.

All stimulants and narcotics, such as toa, coffee, cocoa, tobacco, etc, are absolutely taboo We don't undalgo even in chewing botel leaves (pan) or arecatus (suparcz).

"Here is a truth," to cite Barnarr Macfadden, "that is worth careful consideration. The less you eat to keep your health and strength, the longer these valuable possessions will be retained. If the med were divided in half it would probably more accurately represent the needs of the average individual."

The following Marathi proverb brings out Bernarr Macfadden's idea very well:

" फार वाल तर थोडे चाल, थोडे ग्राल तर फार श्राल "

" Lat little and live to est much "

In addition to regular daily exercise, like the Namaskārs, and a wholesome frugal diet of vital foode, well masticated and eaten only at the dictates of normal appetite, frequent fasting—complete or partial—is needed.

Fasting.

On every Monday, Toseday, and Sankashti Chaturthi (fourth day of every dark fortnight) we observe a Partial fast, and on every Ekadashi a complete fast. The first nine days of the Navanatra in the month of Ashvin we have on cow's fresh warm milk only. For a month or two of every Chaturmas (the four months of the west esseen) our diet consists of Havishya food, i e. food which is not flatulont and is not hard to diggest.

If you want to keep well for an indefinite period you have to make up your mind to observe a fast fo a day every fortnight if not every week

If you have not tried and tested the exercise of Surya Namaskars with the diet and fasting as described here and elsewhere, we strongly urge that you try it

Evolution of the Present System of Surya Namaskars.

We are often asked the question, 'Is the method of Surya Namaskars, you are now advocating, being followed by you from the beginning?"

Here is a brief reply, showing how the present system gradually evolved from the old method.

It was in 1908 that we commenced to do Surya Namaskars regularly in the old style, according to which it was not necessary to straighten the knees while bending over, nor to bring the foot forward in a line with the palms, it being enough to place the foot several inches behind the line, and instead of standing erect to do each Namaskār, several Namaskars were done in the stooping position, and the Pranava, the Bija Syllables and the Vedic hymn were all recited lowly and rapidly in the bending posture. In our boyhood we were taught to do Surya Namaskars in this way There are still many persons who follow this old style A few of them at best stand for each Namaskar, but never keep the knees straight when bending over. In this way as many as five Namaskars could be done in one breath While now three complete breaths have to be done in one single Namaskar

On doing this exercise about a year after 1908, we one day tried to bring the toes of one leg forward in a line with the palms, and found that it gave a little greater strain to the abdomen and weist. This was the first item of improvement made in the old style.

When, on another occasion, we tried to straighten the knees when bending over to place the palms on the ground, we experienced a still greater stretching sensation in the culves, thighs, waist, abdomen, and throughout the back. This material improvement dates from this time.

Following the custom of the old school of wrestling and athletics, we when young, partook freely of fatty and proteinaceous substances, such as cream, butter, ghee, nuta, etc., when in training and even when not in training and consequently put on an excess of fat all over the tody and especially round the abdomen. And as it was necessary to reduce the girth of the abdomen all such movements in Namaskärs as gave a vigorous stretch and compression to the abdomen were gradually introduced in the method.

The changes thus made in the mode of doing Namaskārs vigorously strained and acted upon the stomach and abdomen muscles, and gradually lessened within about six months our constipation, the greatest menace of the civilized man. Though sometimes the bowels fail to function early in the morning, they do open freely an hour or so after the Namaskārs.

When required to stand for a longer time in order to recite the Pranava, the Bija syllables and the whole

Vedic hymn, in the last three Namaskars, we tried to stand erect, with chest inflated and thrown forward and felt an appreciable strain in the abdomen and waist regions. Since then we assumed this attitude in every Namaskar.

When taking the light foot forward a studied pressure on the light side of the belly and a similar pressure on the left side in taking the left food forward were found to stimulate the liver and spleen respectively. The improvement was, therefore, made in the old method.

With the introduction of these improvements over the old style, as we had to mark if the different parts of the body especially the stomach and abdomen received adequate pressure and stimulation we naturally stopped the old way of doing four or five Namaskars in one breath And the simultaneous action of touching the ground with the chest and forehead necessitated the pulling up of the belly and this pulling up was greatly facilitated by a complete exhalation. Hence in every Nameskur complete exhalation was made when in this position the belly was drawn in

When in the standing posture, the chest had to be widened and thrown forward, a full and deep inhalation proved a great help Thus we began to take one full breath - 1 e, one full inhalation (文章), one holding of the breath (安章) and one complete exhalation (文章) - in doing one Namaskur And such full breath tended considerably to widen the chest and to reduce the fat about the abdomen



Saubh, Ranischeb of Aundh

Whenever then in different positions in performing as Namaskar the belly had to be drawn in, a complete residual on was found very useful and effective for that stricular movement. In like manner, whenever in doing as Namaskar the chest had to be widened, a full deep shalation helped the movement materially.

In this way, three full breaths came to be included performing one Namaskar only.

A careful perusal of the article by R. M. Lesser area in the "Physical Culture" Magazine for April, 924, induced us to say the Pranava and the Bija yllables slowly, loudly and clearly, which has proved of vital importance.

Putting all these observations and experiences to practical use, we gradually evolved quite a new system out of the old one) of doing Surya Namaskārs as de-lailed in this new edition.

We have gone into all this at some length, because we feel that we have played our small part in helping our fellow men and in helping to change matters.

EXPERIENCE OF OTHERS.

Our Ranisaheb's Experience.

Girls and women doing Sürya Namaskars according to our method are being tremendously benefited in bodily and mental health.

Some of the benefits derived by the Ranisaheb from Sürya Namaekārs are:—

(1) Strength of The Spine and Back.

Before she took to this exercise about ten yea ago, she felt pain in the upper part of the spine, wher ever she studied or worked for an hour or so in a sittin position. Now though she has been studying or workin harder and longer in the same position, she feels no pai in that part or anywhere else.

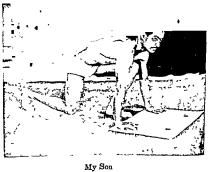
(2) Normal Alimentary Canal.

She suffered now and then from stomach troubles constipation, etc. They have all gone now.

(3) Normal Menses. '

A number of menstrual complaints have disappeared since she began this exercise. Catamenial discharge continued as long as eight days attended with severe pain Now it is normal in quantity and duration and without pain.

- (4) Pain about her waist afflicted her now and then, but it has all ceased now.
- (5) Morning stekness & mothid longings of preg. nancy, inevitable in modern woman, gradually diminished & ultimately vanished.
 - (6) Weakness subsequent to child-birth disappears more rapidly than before.
 - (7) Parturation is easier, quicker and almost painless.
 - (8) The children are healthier and stronger.
 - (9) She looks younger for her age, though a mother of eleven children.



Shrimant Appasaheb.

B. A., [Ozon.] Bar-at-law.

The Development of My Son Shrimant Parashuramrao alias Appasaheb.

A stalwart, healthy and strong young man whose wenderful development of body and mind is due to regular and systematic Namaskär exercise. Now 28 years old, he stands six feet and one inch & weighs 152 lbs.

Mrs.-Saubhagyavati Sitabai Kirloskar's

She commenced doing Sürya Namaslärs' systems cally with Pranav Bijas and Vedic hymns on the 16th July 1925

The following are some of the material benefiattained within six months from commencement —

- (1) All pain in the back and waist disappeared
- (2) Almost all the menetrual complaints, sh suffered from before she commenced this exercise, gradually vanished, and all tendency to prolapsus or fallio, of the womb quite disappeared. This shows that Süry Namaskārs when regularly and systematically done produce beneficial effects upon the uterus or womb.
- (3) There were no more rheumatic complaints.
 (4) Muscles in her arms, legs and bust became
 filmer, stronger and more prominent.
- (5) Improvements in the quality of the blood Complexion became appreciably ruddler, nails showed! radder tint.
 - (6) Perspiration lost its unpleasant odour.
 - (7) Digestive organs began to function better.



Mrs. Saubh. Sitabai Kirloskar. Mother of ten children.



Mr. R. K. Kirloskar. Age. 81.

Mr. R. K Kirloskar's Experience.

It is about eighteen years he has been doing the Surya Namaskars with Bija Syllables and Vodic hymn every morning regularly and systematically. Though nov \$2, he does about 25 Namaskars daily.

Before he commenced taking this exercise, he too! two meals, but a few months later, he did away witl his evening meal.

Among the benefits that accrued to him from the Sūrya Namaskārs may be mentioned the following —

- (I) Absolute freedom from any physical complain railment. He has had during this period not ever sold, which before came on him at least once a year.
- (2) He has not suffered even once from worms for which he had to take santonine once or twice every year before he commenced doing Namaskars.
- (3) The pain at the base of the neck and about the waist, which troubled him now and then has completely disappeared, thus showing that this exercise strengthens the spine, back and waist.
- (4) Digestive organs are functioning more satisfactorily.
- (5) His energy, physical and mental is like that of a young man of forty-five.

Mr. Pandharinath A. Inamdar's Experience.

He has been taking the "Sūrya Namaskārs" exercise since his 14th year.

He is also a keen sportsman and good awimmer. But all his physical development is due to Sūrya Namaskārs. His weight is 150 lbs, which is constant for the past twenty years, and his height is 5 feet and 10 inches which is worth consideration, in view of the fact that his parents were both very short.

The Experience of Mr. Shankar Hari Jaydekar, Head Master, Marathl School, Indapur, District Poona.

In the month of May, 1925, stomach-sche began to effect me daily at about 2 P. M. The pair gradually increased to such a pitch that despite the varied treatment of doctors and physicians at Indapur, I felt as though several scorpions stung me in the stomach Then I went to Poona, where I placed myself under the treatment of a well-known medical practitioner for ten days. There was slight relief, but the pain was there.

I returned home to Indapur and continued to take medicine and regimen as prescribed by the Poona doctor, but all in vain. And the thought that the disease might permanently sap my energy and constitution, made me disheartened, when, fortunately the Marathi book on 'Sūrya Namaskārs' by the Rajasaheb of Aundh came to hand. A careful perusal of the valuable booklet induced me to try the Namaskar Exercise for relief. I did try and was able to do fifty Namaskars within a week, as I had already been practising gymnastics, &c. The wonderful alleviation of my disease brought about by this divine' exercise within so short a time, encouraged me 'to continue'it. I gradually increased the number of Namaskars to 200, when all pain vanished and I was restored to health. I was very happy to find that Surya Namaskars achieved what all medical treatments and other exercises failed to do. I have since then been a staun t adherent of Surya Namaskars. Having been thus convinced of the therapeutic an prophylactic value of the Namaskar exercise, I wished that all my assistant teachers and pupils should profit themselves by practising this wonderfully efficient exercise.

I accordingly convened a public meeting, consisting of teachers, students and a large number of townsfolk and delivered a lecture on the necessity and importance of Surya Namaskārs for keeping one always fit and healthy. The lecture proved so effective that all the teachers and students agreed with one voice to do the Namaskārs in the school every day during school time. The public too were so favourably impressed that they immediately subscribed towards a fund necessary to erect a spacious and convenient hall for doing this exercise.

The hall was soon built to the delight of us all.

As many as 150 students are now taking this Namaskar
exercise simultaneously in this hall under my direction.

Another idea soon struck me: I wished to find by actual comparison if Jors and Baithaks also if daily and methodically practised would produce the same results. I, therefore, made two batches, each consisting of 25 boys of almost the same ago, strength, stature and circumstances. Their individual measurements and weights were recorded in a register specially kept for the purpose, before each batch commenced its own form of exercise.

The same period of time was allotted to both the parties to do their respective exercises. Twelve menths'

regular practice conducted under my personal supervision proved the decided superiority of Sürya Namaskärs over Jors and Baithaks.

Indapur, 30th June, 1928.

.S. D Javdekar.

The Experience of Mr. G. K. Gokhale M. A., Superintendent, New English School, Hubil, District Dharwar.

Having decided to give a trial to Sürya Namaskärs I came to Aundh from Hubli and put myself in the hands of Mr. R. K. Kirloskar- an expert in Sürya Namaskars, and also a great enthusiast in matters of physical cul ture-for being trained in the several movements, that make up the Namaskar exercise. I took my first lesson on the 18th October, 1923, and it required 4 or 5 days for me to learn the movements. I was doing only half a dozen Namaskars daily as my body was stiff and the Various muscles were put to a considerable strain in doing even such a small number of Namaskars. But gradually they appeared easier to do and in a few days I could complete 12 Namaskars almost according to the rules laid down. I could increase about 6 Namaskars every half-week or so. To my great surprise, on the 17th day of my training, I could do 50 Namaskers without being particularly fatigued or feeling out of breath. This I consider to be a great merit of the Pranava, Bija Syllables and Vedic hymns (to be recited while doing the Namaskars) which are so graduated that the period of rest (due to having to recite the

Mantras, etc.,) goes on lengthening as the Namaskār go on increasing in number. If the length of the mantras for the first 12 Namaskārs be supposed to be unit, the length of the Mantras for the next ! Namaskārs is two units; for the next 3 Namaskārs, it is 4 units and for the next 3 it is 12 units; so that you feel quite fresh by the time you have finished the first cycle of 24 or 25 Namaskārs.

I can assure all those who may by thinking of taking this Namaskār exercise that it is easy to learn and quite safe as it does not put any undue strain or do any injury to any muscles or organs of the body. To do the movements exactly according to the rules prescribed would involve such a strain, but the beginner is not expected to aim so high; it is better for him to attain perfection in course of time as he makes progress. In fact, some of the positions are so hard that they can only be done perfectly after months of practice.

Even with the little practice I have had I am beginning to feel the beneficial effects of the exercise. The extra fat on my abdomen is growing thinner and my chest seems to be expanding. The constipative tendency, which had so far appeared natural and inseparable from me, seems within control and, on the whole, I am feeling more buoyant and energetic.

This exercise seems to have the most invigorating effects on the abdominal muscles and on the spine, which it stretches and compresses to a sufficient degree. The strength and elasticity of the spine is a very important factor in the general well-being of the whole body and

the mintenance of perfect health. The Namaskär exercise estisfactorily fulfils the principle enunciated in the fellowing statement of Bernarr Macfadden:—

"If you feel that you do not have time to exercise any other last of the body, at least exercise the spine. It will yield you the frested dividend for the time invested. I believe it is always well to exercise other parts of the body also in order to have a balanced development, but some people cannot be convinced that they have time to exercise the entire body and for these I say — 'Exercise the Spine'!"

- " Strengthening the Spine " pp. 116, 117.

From this it follows that the Namaskār Exercise (to be teken until one perspires freely) is the indispensable minimum for every person of either sex, young or old. It is a special boon to those who have passed or about to pees the 40th mile-stone on life's pathway and in whom deterioration of health in various forms may be making its appearance.

Aundh, G. K. Gokhale, 8th November, 1928. Superintendent, New English School. Hubli.

CHAPTER XII.

A State at Exercise.

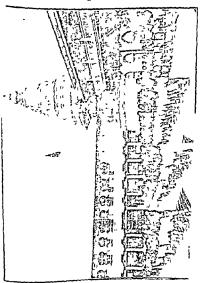
We have been fortunate enough to convince our people of the usefulness of physical education in general and of the Sūrya Namaskārs in particular and they have taken to them with such enthusiaem as to demand a State regulation to make the Sūrya Namaskārs compulsory in all the schools of the Aundh State. Sūrya Namaskārs have been, accordingly, made compulsory in all of the schools in our State.

We don't believe in prominent muscles-in overmuscled men. Harmonions development of the entire body is a sine qua non. It is immensely more important to see 1000 men, women and children to go through a series of carefully planned exercises like Sūıya Namaskärs than to watch some professional athlete beat the world's record in some useless attainment by one-tenth of a second.

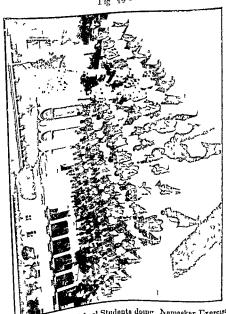
It is our dearest wish that the students of our schools should carry the benefits of the system not only to their families, but extend them to all with whom they come into contact.

Would it be too much to expect our brother-rulers and the educational authorities in British India to adopt our system and to extend the blessings of Health, Efficiency and Longevity to the present and coming generations?

Should our dream he realized, there will be seen within the short space of 5 or 10 years a vast improve-



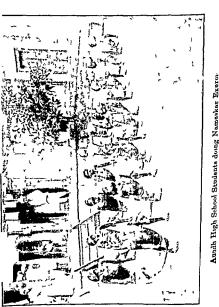
Aundh High School Students doing Names Lar Exercise



h High School Students doing Namaskar Evercise



Aundh High School Students deing Namaskar Drescisa



meet in health, strength and spirit of our school and college going population. We will not, however, be fully satisfied if the health of our boys only is improved, because society requires that the health of our girls-the mothers of the race-should be improved even before that of the boys. The old girls' schools woefully beglected all provision for the physical education of the pupils Latterly these glaring ovils of the system of education imparted to our girls at school and college have been to some extent mitigated. These benefit, inadequate as they are, reach the limited circle of school and college going girls only.

The large mass of girl, (and of boys too for that matter) who do not attend any school or college is left practically without any means of proper physical exercise, and with the break-up of the old joint family system, the number of girls in the family is decreasing every day and group exercises are becoming impossible. And the need for a system of physical exercise, which a girl can take entirely by herself is becoming more and more keenly felt. To all such girls our Sürya Nameskärs offer the most admirable & efficient system of physical exercise. And as in the case of men, so in the case of women, this superb starcise, carried out according to the needs and capacities of the individual, will bring permanent happiness not only to the individual, but to all the succeeding generations as well.

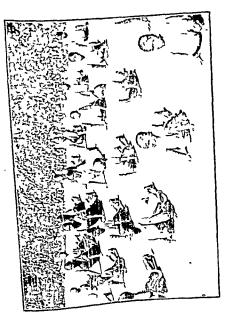
The nation that wishes to stand on its own legs should pay more attention to the development of women, Women as well as menshould be equipped for their task in peace as well as in war. While military service in actual warfare may not be required of women, compulsory physical instruction and body-building will be necessary to both sexes for the national well-being.

One of the chief merits of Sūrya Namashārs is that it is best adapted to group exercise or exercise on masse. Under proper supervision, hundreds of students — boys and girls,—can be made to take this exercise simultaneously, thus affording the double advantage of efficiency and economy of time. The students may be grouped according to age, height or capacity.

We are convinced from our experience of group exercises performed in all the Primary & Middle Schools as well as in the High School of the Aundh State for the past sixteen years, that of all the group exercises to be made compulsory the Sürya Namaskārs is the only one that can be taken most conveniently, most economically, and most efficiently. (See figures 18, 19, 20, 21 and 22.)

It is hardly necessary, to observe that the daily practice of Surya Namaskars does not only not interfere with, but actually adds to, the enjoyment of any form of game or pastime requiring physical exertion.

So we are never opposed to out-door games, sports, wrestling, gymnastics, athletics, swimming, hunting, riding, etc. The main point we want to emphasize is that along with a variety of sports and games according to taste, means, space and other circumstances, there must be a daily complusory exercise like Sirya Abmasking which can be done singly or en masse all the year round in order to lay a real and lasting foundation of normal



health and atrength. For this exercise puts one in condition to take part in any sport or athletics requiring strength and endurance.

Systematic daily performance of Sûrya Namaskûrs will also further the growth and harmonious development of the body of girls and boys. This exercise moreover forms the basis for all other bodily activities, because it is found to give in a marked degree the power of control over the body and mind and the capacity to use the strength to the best advantage in "games and sports, expecially those which require prolonged exertion without injurious results, It minimizes the risk of over-strain especially of the heart."

Normal all-round health, thus acquired and retained through Sürya Namaskars done daily, will enable one to render a butter account of oneself not only in any sport or game but in every-day life also.

CHAPTER XIII.

DIET, HABITS AND COOKING

1 Diet

Your biggest asset-greater even than ability or wealth-is Health Guard it Prize it Health can start or end with the quality and quantity of food you eat But the average persons duet is radically wrong that people generally are literally digging their graves with their teeth

We do not, however, wish to dogmatize on matters of diet. A few broad suggestions are all that can be given here

Before attempting to give even a general description of what our diet should be, we should like to place before the resent day expert and experienced dieticians and medical men of Europe and America on the subject of food and nutrition Because "all persons receive inspiration from experiences of those whose judgment and success entitle them to the highest respect

(a) Upton Sinelair says in "Modern Review —
"Intelligently chosen, well-balanced food is the
strongest ally we have in our fight against illness But
when the 'art and science' of eating becomes uncontrolled, unplanned and heedless of the functions and
limitations of the human body, then it itself becomes
the root of many ills and a crime in the fullest sense of
the word!"

(b) Like many doctors, Di Belfrage M D. Chairman of the New Health Society's Food Committee, London, and author of 'What's Best to Dat', is convinced that many of his people eat too much, especially in the way of meat and accordingly he concludes his book with this grim warning—

"Leave gormandizing - Know the grave doth open for thee thrice wider than for other men!

(c) Vitamins

The term 'Vitamin' is now employed to designate certain substances contained in milk, fruits, vegetables and other articles of food. The exact nature of these substances is not known, but they have been shown to be necessary to the normal development of young animals and children as well as to the maintenance of health and nell being in adults. They are very lable substances which existing abundantly in raw foods, especially in incooled fruits and vegetables become seriously attenuated or altogether destroyed by cooking, desiccation, descritication and other refining processes.

We know the vitamin as we know electricity—by its effects

There are probably a great many vitamins in latural foods—live or quick foods as they are called—but ibout six or seven only have till now (1935) been solated

For a fuller information of the reader, we give below an excerpt from an article by William R. Lucas, N D in "The Superman Magazine", March, 1934For the purpose of general guidance the chief vitamins are known as A, B, C D E and G

Vitamin A is called antiopthamic because it tends to keep the eyes normal It also stimulates appetite, digestion and growth The chief sources of vitamin A are milk butter, cheese, egg yolk, sweet potatoes coin (maze), spinach lives and cod liver oil

Vitamin B is called anti-neuritic It also stimulates appetite, digestion and growth. The principal sources are various vegetables, the germ of wheat, animal plands and veast.

Vitamin C is the one that prevents scurvy It is called anti-scorbutic The principal sources are fruit, betries, vegetables, oranges, lemons tomatoes and lattice

Vitamin D is called anti rachitic which means that it pievents rickets Being tonic in its action, it helps to prevent diseases of various kinds. The natural sources are milk, butter, and dairy products and codliver oil

Vitamin E is known as fertility or antisterility vitamin It is abundantly present in the wheat germ and other chole grains, leafy greens, milk, egg yolk, and various meats and fats

Up to date there is no clearly defined vitamin F, but it is thought that it will emerge out of Vitamin B

Vitamin G is the auti-pellaric one and abounds in vegetables and milk. It is also present in lean meat,

annul glands, wheat gorms and eggs It is said to revent pellagra and digestive and nervous diseases

Wherein lies the importance of this knowledge of vitamin? Simply that it stresses that we should live largely on fruits and vegetables, that we should consume whole wheat and other trhole grain products and teasonable amount of fresh unboiled milk and other dairy products as the basis of dietary. This is vital knowledge if it is used rightly. If it is not used it is nothing but a collection of waste words.

(d) We cannot close this vital subject of Vitamins inthout presenting to our reader Dr. Leonard Wilham, d. Ds. sane advice — "The discovery of the vitamins use-soits would be scientists with a much needed lesson a burnity. It reminds us that, in evolving man, Nature towided him with the foods necessiry to his growth, is religiously and well-being, and that in interfering with these natural foods by cooking, sterilizing and tessings, he has sacrificed their officacy, constitutes to his Kreed, but more often to his arrogant assumption of exparior knowledge, with the result that he has not only promoted the prevalence of preventiable disease, but has actually created others which but for his mis-directed ouncer would have had no existence."

(e) Proper Food - The Greatest Physiological Need

The following extract from 'Whate Best to Eati' by Dr Belfrage, M D, will be found enlightening, thought-provoking and interesting

The need of the hour is for a more intensive study of the conditions under which perfect heatth and the highest degree of efficiency can be reached by the community at large.

The conditions of life must be so improved that the body and its organs can function in a thoroughly efficient manner.

Among these conditions food and nutrition stand out pre-eminently and demand the greatest attention. Good and properly selected food is the greatest physiological need of the body.

True health is attained only by implicit obedience to the inexorable laws of nature. The laws of health for the plant and the lower animal are the laws of health for man in all the glory of his lofty intellect.

Man's intellect has enabled him to acquire such an' independence of his natural surroundings as threatens his very existence.

Disorder and disease of the body has come to be regarded as inevitable and we are assuming a fatalistic attitude towards its ravages on our time and energies, which is utterly deplorable.

The appalling infant mortality in our cities, the poor physique of so many men and women and the distressing prevalence of sickness of all kinds, call for much earnest enquiry in search of some widely prevalent fault in the manner of living.

The discovery about 35 years ago of hitherto unknown factor in food substances-the Vitamins-onesed the eyes of scientists to the fact that there was much more to know about foods than their mere chemical composition.

Apart from actual disease there are too many people whose standard of mental and bodily health and efficiency is far lower than it should be. People who are always tired and complaining and who go about their work in a joyless disheartened fashion, devoid of entimeism, and to whom life is one long effort, are numerous in all classes of the community and are the discontents and unemployables who clog the wheels of progress, create disharmony around them and foster revolution.

Overfeeding is much commoner than underfeeding at any rate in this country (England) and in America, and it is a commonly accepted fact that we most of us are tampted by the pleasures of the table to eats good deal lacre than our bodies need. Overeating is largely induced by the temphation to eat too much eavoury meat and highly aweetend foods. Foods that are enjoyed for their natural flavour are not nearly so likely to be taken to access.

. Civilization has its populties as well as its blessings, and not the least of these is the bad health and feeble stamina induced by a radical departure from the natural dist.

The absence of sufficient fresh uncooked, undamaged food stuffs in the dietis undermining the health and vigor of a very large proportion of the town and city dwellers is civilization who in a fatal ignorance of the true character of mutritive foods, think they are well fed.

If sufficient green food, fresh or preserved fruit and dairy products are taken in the diet, an ample supply of all necessary mineral salts will be obtained. They are as necessary to the life processes of man's body as to those of the plant.

(f) Bias of Custom and Desire.

In giving the whole subject of diet the thoughtful consideration it deserves, we should be careful not to be biased by custom and desire, for the body is largely a creature of habit and it craves that to which it is accustomed. Should we, at any time, deem it was wise to acquire other habits, it is easy to do so, and when the body has become used to them, it will desire the new kind of food just as much as it did the old.

-Extract from " Ways to Perfect Health " by Irving S Cooper.

(g) Meat not Necessary.

- (i) A cogent argument against meat eating:—
 "By habit, most of us have been brought up to believe
 that meat is absolutely essential to health-that without
 it we should at least become puny and lacking in energy.
 Against this we must, if we are not bigoted, set the
 evidence of those who have given up meat altogether
 and benefited in health of body and mind.
- "Of course, if it could be proved that individuals formerly accustomed to a vegetarian or fruit diet had been anade ill by it, and then by taking up a meat diet, had recovered perfect health, there would be sound reason for regarding that meat was essential. But it is

to an opposite direction that we find so many proofs that it is not essential

It is those who have given up meat and restricted their diet to vegetables and fruit, or even fruit alone, who declare and show an improvement in health, and as is often the case, the removal of a disease threatening [fo itself].

- H G Styles, in " Health for All , January 1934

(n) Animal flesh is not strictly necessary, and no one will be the worse who for sentimental or other teasons does not include either butchers meat, fish or bird in his dietary. Some of the finest races of manhind saldom or never ent flesh foods and practical experience has shown that flesh abstances are capable of as great or greater endurance then flesh eaters

The individual who abjures flesh but takes milk, eggs and cheese, is probably on the sefest ground. He claums that meat is unnecessary, that it contains the Poisonous waste products of the animal which supplied it that it is generally eaten to excess, that the eating of it sapt to be followed by a lethargic condition, that some of the best intellects and most useful lives have belonged to mon who abjured flesh foods and that the eating of flesh is a relic of between There is much truth in these claims. We may add to them the fact that the raising of meat on economic grounds is grossly extravagant seeing that the dairy ow is capable of returning at least 18 per cent of the food value of food she consumes, while the sheep or or can only your 3.5 per cent.

Of the animal protein foods mitk not only contain the best possible class of protein, but it is rich in vitunins and mineral salts. It is almost a perfect food in is self since it also contains a good fat and a good suga One and a half pints of milk contain enough first-class protein for the day's dictary. It is easy of digestion taken slowly so that it does not form large curds in the stomach, and it can be of course combined and cooke with other foods.

-Extract from "What's Best To Lat" by Dr. S. H. Belfrage, M. D. (London), 1926

(iii) A very limited amount of time devoted to the study of the Chemistry of food would reveal the fact to any intelligent person that meat is wholly unincessar, that it contains absolutely nothing that cannot be supplied from other things, but that it does contain much poison that other things do not contain which is responsible for a great deal of physical trouble. This study would convince the housewife and mother that every chemical element of which the body is composed can be supplied in its best form from the vegetable world.

Don't eat much meat, none is better.

-Dr. Eugene Christian, P. S. D., in his book "How to Live 100 years."

(iv) Meat-eating shortens life.

—Harold L. Graham, in "The Oriental Watchman and Herald of health" for November, 1927.

(v) Fruitarianism.

For more than a quarter of a century I have eaten so flesh food, and so I have tested fully and for myself in fractice both sides of the question. And as a frintarian I am more and more convectors that the progress of the higher or more cultured classes is from Carnivorum towards Pruntarianism-from meat eating towards front etting

> -Dr J Oldfeld, D C I M A, L R C P, etc, in his book 'The Diet for Cultured People

(v_1) Proteid Food from Nuts and Legumes

The changes which take place in the digestion of toteids are considerably affected by the nature of our tet The Nittogon compounds break down into waste todacts, chiefly Urea and Uni-Ard which are excretily the kidneys. The latter and is almost usefulble in rater and requires chiefly the slikhine element sodium of dissolve this acid as urate of sodium.

If, however, the food eaten is deficient in sedium, or too rich in nitrogen, there will be a surplus amount of this and formed which will cause harmful precipitations in the body. Hence we have such diseases as rheumatism, Sout, gravel and kidney disease.

In carnivorous animals, the dog and cat, the liver is able to destroy most of the ure and formed, but as is able to destroy most of the ure and formed, but as and has not this power, it shows clearly that he is not adapted by nature to eat butcher most which besides being a concentrated protein always contains the waste

poisons, creatine, leucomaine, uric acid, &c, found in all animal tissues. To be plain then the great hygeinizerror in eating flesh-meat is that the body gets an extra supply of waste matter which accumulates in the system, owing to the body having sufficient work to do in expelling its own uric acid, &c. Man ought to select his protied food from nuts, legumes, &c., free from harmful waste poisons and to use a plentiful supply of fresh vegetables rich in alkaline mineral elements, which neutralize the normal uric acid and cause it to be excreted without difficulty.

- " Health " for Dec. 1927, p. 227.

vii. Vegetable Protein vs. Animal Protein.

The ordinary individual, if asked to name the foods that lead in protein content, invariably would name the Animal protein foods, but by comparison of the twenty-six of the principal Vegetable protein foods with the same number of Animal protein foods, we find that the general averages are as follows:—

Vegetable Protein average is 25.89%

Animal Protein average is 21.79%

This gives a difference of 4.10% in favour of the Vegetable protein.

The Vegetable protein can do all that the Animal protein can do and do it much safer and better, because it has no harmful germs, like the Animal protein, and leaves no bad after effects, as Animal protein does. There really is no good reason for eating meat.

Then why appease a perverted appetite by eating that feel germ-filled carrien?

G. W. Remsburg, D. C., D. N., Author of "The Pan American. Diet Book."

viii. Extensive use of beef is one of the leading curses of the great prevalence of cancer in modern times.

Dr. D. H. Cress, M. D.

it. The following is an instance given by Dr. Belfrage how one can thrive better without meat. When in the last world-war, the people of Denmark could get no meat they had to maintain themselves on whole wheat, whole rice, and whole rye. They had of course milk, butter, potatoes and green vegetables. But the wooder was that this compulsory diet reduced their death rate by 2.1%

This condemnation of animal food on strictly scientific grounds proves that "Bhāji Bhākari" (sauced vegotable and jwari broad) is the best and cheapest healthful diet. 'Bhākari' gives the protein and 'Bhāji' supplies the alkalies and the vitamine.

A careful perusal of the above extracts from the works by experienced medical authorities, scientists, and expert dicticians, of meat-eating countries in Europe and America will, we hope, induce or enable, our readers to make an intelligent selection of wholescene and neurishing feed-atuffs, appropriate for individual needs.

To obtain the best results, however, from such diet an all-round physical exercise, like Sürya Namaskärs, is absolutely necessary. A happy combination of a suitable diet and a suitable exercise will secure you Health, Efficiency and Longevity.

Let us now attempt a brief description of natural foods available in our Maharashtra, and a few culinary preparations and commercial products used by our people in general

[1] Milk.

There should be an ample supply of fiesh clean milk (not boiled or pasteurized) in our daily meal. Each individual should have at least a cup of clean fresh genuine milk-preferably cow's milk-at each meal. All milk products, as curds, chunned curds, buttermilk, butter, ghee, may be partaken of with benefit.

Note—If milk is sterilized, boiled or even pasteurized with a view to destroy the bacillus in it, it will be deprived of its vitamins, etc., and the resisting power of the drinker will be lowered not to one microbe but to all

[2] Fruits.

A liberal use of fresh fruits and berries, is always desirable. Among the health-giving and nourishing fruits and berries may be mentioned: plantains, oranges, lemons, citrons, mangoes, pears, grapes, figs, raisins, apples, pine-apples, guavas, jack-fruits, melons, dates, peaches, pomegranates, custard apples (মান্যামত), bullock's heart-fruits (মান্যত), jujubes, strawberries, corinda fruits (মান্যত), & Sugarcane may occasionally he used.

[3] Nuts.

A small quantity of nuts should form part of your meals. Among nourishing nuts may be mentioned: shmond, date, coccanut, ground nut or pea nut, walnut, apricot, cashen nut, pistachio nut, chirongia sapida (वारोट्डो), &c.

Parched nuts very slightly salted make a delicions

[4] Whole Grain.

Whole brown rice" (unpolished), whole wheat, shols leguminous grains, [i.e. with husk or bran unremoved), jwari, bajri, maize, बारचार, (epnosurus corposurus , राखा, (panic seed), सादा, वर्ष (coix barbata), tc., should be used cooked, soaked in water or raw according to one's digestive strength or taste.

How whole wheat flour is superior to white flour will be seen from a convincing instance cited by Dr. Belfrage During the campaign in Mesopotamia in the world-war (1914-18) the disease called bert-bert excurred in the British troops to a various extent. The men were fed on white flour, tinned meats and other Preserved foods. They could get no milk, eggs, fresh regestable or fruit. Fortunately the supply of white flour gave out and the men had to be supplied with the

-Complete Life Building Method of the Balston Health, Club,

1924, p. 223,

[&]quot;Whole ree is one of the most important of all the products of the earlik as a food for humanity but when depit ed of it cout of covering, it is one of the most paramona when eaten by itself. Aroud polished rice. Aroud supplished rice as such, for it is still the instale of the grain celly. Brown rice is the right kind,"

local native flour made from stone-ground grain, i e, flour which contained all the germ and branny coverings of the grain which contain plenty of vitamin B and other essential ingredients. The disease ceased to occur and those who were ill recovered. No more striking example of the value of whole meal flour could well be given.

The grains except rice mentioned in this section will give better results if they be allowed to germinate a little before being used.

[5] Legumes or Pulse,

Peas (বাহাদা), grams (রমেনা), beans (বাবহা), pigeon-peas (ব্ব), green grams (মৃন), kidney beans (মহরা), lentils (মন্দ), black grams (বহার), chavalee beans (ব্যক্তা), horse gram (মুক্তা।, মৃক্ত মা, মুক্ত মুক্ত মা, মুক্ত মুক্ত মা, মুক্ত মা, মুক্ত মুক্ত মা, মুক্ত মা, মুক্ত মা, মুক্ত মুক্ত মুক্ত মা, মুক্ত মুক্ত মুক্ত মুক্ত মা, মুক্ত মুক

Note:— Legumes, when deprived of their skin (husk), lose park of their vitamins, mineral salts and most of the eliminative ingredients and occasion constipation and other intestinal complaints.

[6] Green Vegetables.

Green (uncooked), tender, leafy, edible vegetables, or their fruit if any, or both, such as celery, water-cress, lettuce, spinach, cauliflower, cabbage, fonugreek (মর্থা), lady's finger (মুর্বা), cluster bean (নাম্বান্), cucumber हाहडी, पासूक, तयसें), cucumis acutangulus (शेडका), 3050-foot (चाकरत), wood-sorrol (चाका) elephant-ophus ceaber (पायरी), brown hemp (भेपारी), tendor gram-leaves (पद्धा), selllowor (करही) chenopodium वेदनाटया), obraceous candidus (राजितारा), amaranthus (बाह), gourd (भोपद्धा), &c will furnish ingredients and reaglage necessary for untrition, health and elimination

hote - A considerable portion of these leafy vegetables should be used fresh (green [uncooked] for cooking destroys [act of vitamins, &c

[7] Root, Bulb and Fruit Vegetables.

Bulbs, roots, and fruit vegetables, such as potato, awest potato, radish, carrot, onion, gourds of various sorts, snake gourd, brinjal or eggfruit, ciccimis, clusterbean, teader jack-fruit, groen plantain, &c., are healthful and nutritious. They may be used boiled, baked, stammed or raw according to consumer's taste and power of dicastion

[8] Tasty Articles

Fresh, green, leafy, edible vegetables or their fruits, rects and bulbs, as radish, carrot, egg fruit, once, garlic &c, and nots grated and mixed with whole grains, scaked or germinated and seasoned to taste, will supply further varieties of appetizing articles

[9] Substitutes for Fruits

Fresh fronts, as grapes, mangoes, oranges, figs, &c, are not available throughout the year but whole grain, are not available throughout the year, &c, can be had brown nee, whole wheat, gram, pea, &c, can be had

always A large variety of tasty articles as *dangar † papad, ‡ usal, ¶ sandaga, &o, may be made from these grains, raw, germinated or cooked; and they will, to a certain extent, serve the purpose of fruits.

[10] Tomato.

Tomato, a valuable vegetable from the nutritional point of view unfortunately finds little favour with the majority of our people. They should cultivate a taste for it as an important article of dietary; for the tomato yields large quantities of vitamins, mineral salts, &c. and admits of being used in a raw or cooked state in a variety of appetizing preparations Another merit it possesses is its cheapness and fecundity. It can be eaten raw or cooked with a dash of salt or sugar to suit individual taste.

[11] Eggs.

Eggs or the yolk of eggs, next in importance to milk, may be used by those who have no objection to them, provided they are from cleanly and well-fed hers.

- * Dangar (Zint) Flour of black gram (Zzit), prepared with salt and poppers
- † Papad (पापड) --- A sort of thin wafer-cake made of the flour of black gram (उटीइ) or other pulse with spices.
- 1 Usal (उसळ) Adush consisting of pulse boiled, well spiced and fried up with greens, &c.
- 또 Sandaga (संहमा) A small ball of pompions, encumbers &c, sliced or scraped up together, well-blonded with spiceries and paquant ingredients, and dried. It is then fried before being served.

[12] Sugar.

Refined sugar might, with advantage, he dispensed with. It may be used very sparingly when absolutely necessary. Raw sugar or honey is a better substitute.

When we eat a lot of white, refined came or beet togar, two things detrimental to health occur: Some of it passes unchanged into the blood stream and, not being required there in this state, has to be eliminated by the kidneys; and some of it undergoes an acid is mentation in the stomach and causes acidity of the blood, thus giving rise to indigestion, constipation, ecidosis, high blood pressure, diabetes, etc. Play safe and leave the white sugar alone.

[18] Salt.

Table salt (sodium chloride) is an inorganic mineral, and hence it can never be used by body cells. "In fact," says Dr. Romsburg in 'The Pan-American Diet Bock,' "it is a burden to the entire body. It is an irritant to the stomach and blood stream. It is indigestible and hinders the digestion of other food. It puts mineral into the systom and hastens old age, overloads the kidneys, etc.

"Very little organic salt is needed by the body. It is supplied in great abundance in fruits and regulables in an organized condition, readily and easily assimilated by the body.

"Unfortunately, however, our modern methods and habite of life have so changed our diet from the normal that few people know what a natural diet is

with the result that they do not get in their foods-denatured foods- a sufficient supply of natural salts to build up the body perfectly. Ignorant cooking processes also remove much of the organized salts. Hence to make the food taste as it should, mineral salt is added

- 'The principal taste of a salt eater is a salty one.
 Without this mineral salt in the foods one soon enjoys
 as many flavours as foods eaten
- 'Use salt very sparingly Cultivate your taste for natural foods, such as whole wheat, brown unpolished lice, green vegetables, fruits, raw milk, etc., and you will hardly require, or feel the necessity of, table solt-sedum chloride.'

Besides being a profound inritant, table salt is an acid former Excessive salt is often the cause of obesity, stiff joints and bladder complaints

[14] Condiments and Spices.

Most condiments and spices are injurious stimulants. One perverted taste and bad habits have made them a necessity. The daily use of them is a violation of Nature's fundamental law, which is that the natural and simple flavour of all foods shall be untouched and unmolested by outside influence or interference. The foods created by God for man are so rich in natural flavours that one does not miss, after a short time, the seasoning, but actually onjoys this wholesome food as God made it "free from all fulls and trimmings."

It can be laid down as an absolute principle that any condiment that destroys the sense of perception of the natural flavour of any food, is bed. Another principle is that those condiments that are largely irritants are also injurious and should be avoided.

Tested by either of these standards, black pepper (first), red-pepper or chilli (first), mustard, (vit, max), hete, must unheritatingly be condemned They and other condiments have no food value They are irritants and destroy the keen perception of taste of food; that are eaten with them They have but one object and purpose and that is to arouse and stimulate an overworked and perverted appatite so that it shall at least put on a semblance of enjoyment. "Food that cannot be eaten without such stimulants had better never be saten at all."

Nore - The articles of dict referred to in the Clapter assumed only with a view to pomiting out their diction value. The last is another exhaustre one computery. The vegetables, leguess, seconds, d.c., which are objectionable on grounds of religion or individual includes or adopterassis may be unitted. For individual distillations of which comon, garle, leasting beams, ratching bound, de They may out them from their diction.

Modern diet hangs toe many anchors on health. You can feel their dreg. You hee, but the thrill is lacking. Vhrank health and radiant energy depend upon laternal behaviour. And nothing maintains this inner cleanliness an perfectly as proper diet and proper exercise like Suryo Namaskars.

Rule of Health.

The general rule of health given by F. C. Haddock in his book "Power of Will" is worth observing :-

"Food should be regulated according to peculiarities of body and general work performed. Water which is pure should be freely drunk. Plenty of sound sleep should be secured, and slumber should be enhanced by plenty of pure air Most people drink too little water. The air of many sleeping rooms would kill a wild Indian. Regularity of habits should be cultivated. Sufficient exercise must be taken to keep the muscles from degeneration and to vitalize the blood by activity of lungs."

This chapter on diet cannot be closed without a word of warning especially to the young enthusiast in health culture. Do not be led away with the idea that the true test of your physical powers is your capacity to gorge large quantities of eatables. Emphasis is laid on this particular form of weakness, because it is so common.

Another form of weakness is a sort of vanity of finishing one's meal in a very short time-hurried nervous eating. Both these weaknesses should be avoided. They result in throwing an unwarranted burden on the digestive organs and produce conditions most favourable to the inception of disease. Remember that most of the diseases are due to overceating or hurried eating which is a form of wrong eating.

The question is often asked, "How many meals a day should be taken?" Though the answer may depend on a number of factors regarding the capacity of the eater, the life heleads, the quality and quantity of food he takes, still we venture to say from our own experience and that of others that only two meals

aday with no snacks between would be quite enough for an average Indian adult, man or women, till fity-five or sixty and only one meal after that age Too frequent eating without keen hunger is undoubtrelly one of the greatest curses of mankind

Special Regimen Unnecessary

In the case of Surya Namaskar exercise no special regulation of diet or regimen is imposed or recommended as is done in the case of athletes and restlers in training A quarter or half a *sker of clean fresh con's inilk may, if one could afford it, be taken with advantage an hour or so after the Namaskars It is not, however, indispensable The golden rule of two meals a day for the young, with no snack between, and one meal for the old, should be observed by all None, therefore, who do Surya Namaskars will ever be troubled or afflicted with indigestion or other alments due to overfeeding

Fasting

However careful we may be in selecting the proper food and in regulating the quantity, some undesirable and unnecessary edibles and liquids find their way into our stomach, owing partly to our ignorance and Partly to force of habit, and are hi ely to cause trouble

To counteract this unpleasant result, fasting, as a remedial measure, is absolutely necessary

The Golden Rule is to fast when you lose appointe Loss of appetite is natures warning that no more

One sher is a ghty tols '- weight or a little over two lis

builden should be laid on the digestive apparatus of the body. It is a good plan to set apart for fasting a certain day each week or each fortuight.

Overfed folk die before their time, A fast is the finest tonic. Don't be a slave to habit-hunger. Longevily of our ancestors can be ours by judicial fasting. Most religions, therefore, enjoin that a fast be observed on certain days, as Ekadashi, Lent. Roza, etc.

A fast may be complete or partial. In a complete fast nothing but pure water is taken

A partial fast consists, once or twice a day, of a little fruit or fruit juice, or a little quantity of milk, butter-milk, nuts, roots, etc

Note — "Honey is of unusual value in giving one a restful feeling during a fast. The water you drink can be sweetened to taste with honey. It seems to take away your appetite and gives you increased energy; and outside of a loss of weight you will hardly know you are fasting if you drink water sweetened with honey,"

SCIENCE CONFIRMS VALUE OF LASTING

"The cure of disease by fasting is next to the cure of disease by a muracle, the most dramatic therapy known to mankind. It is as if a man should find life by deliberately shaking hands with death.

"One notion which Dr Morgulis conclusively explodes Is the idea that fasting is injurious. He has established by an elaborate series of test on men and, animals that a fast continued till there is a loss of 10 to 15 per cent of the body weight, is not only lanocuous but is highly beneficial. "Dr Morgulis has come to the conclusion that fasting is definitely a means of reinvigorating the organism

"He finds also that the complete fast involving entire abstention from food, is the least dangerous form of fasting to attempt

II Hablts

Never be a drug addict It matters little whether the drug you take is the milder one like tea, coffee tobacce, or the deadlier one like morphine, cocaine, opium, alcohol, etc When once you cannot lead an ordinary life without the unnatural stimulus of some farticular drug, you are lost to perfect health.

"Your ability to form habits," says Shelley Castle, a great Psychologist, "is one of your most piecious possessions" You will reap untold benefit if you use that power usely. Habits will mend or mar you according as they are good or had. Form, therefore, a habit that will keep your body and mind healthy

Now a word on habit-forming articles ignoiantly regarded as food, that epoil health, such as tea, coffee, eccoa, etc Science and practical experience have established the fact that the sweet aroms and flavor of these habit forming stimulants are more than counteracted by the poisonous ingredients contained in them A long continued use of these articles is positively harmful to the digestive organs and to the entire nervous system and thus is a prolific source of a variety of chronic diseases afflicting the present generations, and the evil hay affect future generations also

Tea and coffee contain no food In taking tea and coffee man is taking pure poison and no nourishment

whatever. The increase of unic acid diseases among people can be clearly traced to the enormous and universal spread of tea and coffee habit.

The surest remedy to do away with this evil will be found in the advice given by F. C. Haddock, M. S., Pb. D., in his great work, "Power of Will":

"All evil habits," says he, may be destroyed by man who really desires to master them.

" The cure of bad habits is to be effected by destruction of desire for their indulgence. The desire of course precedes the set and should have one's attention, it can do but little good to refuse the act over and over again, always learing the desire unmolested, succonsidered.

"If there is not enough manhood left in you to desire reform you must consult a physician or a "cure" and if this will avail nothing, then, to be sure you must go on as a slave."

III Method of Cooking

A word or two on cooking food the health way, will not be out of place: --

Thousands of our people, especially those living in cities and towns, are actually starving in spite of a most bountiful and daintiest table. For really it is not always how much or what you eat, that determines your health and strength, but it is the proper selection, combination, and cooking of foods that are of vital importance to your well-being.

The ordinary method of cooking vegetables, cereals, legumes, etc., in boiling water destroys part of the nutritive elements contained in them. The excess water after boiling is usually discarded and the washed out remnants of the food are eaten.

"This loss of nutritive elements by the boiling proa is not an imaginary or theoretical conception. Resee the lost elements are soluble in water and, theres, invisible, one is not likely to realize how very serit is the loss. Recent tests at the University of iscomin showed that such losses from boiling foods in the are really very serious.

"Sixtoan kinds of vegetables tosted for the various agredients showed losses from boiling that ranged from bout 10 per cent in the case of potatoes to as high as 3 and 70 per cent in the case of some of the innereal demonsts of leafy vegetables. The loss of calcium and from was particularly high."

Our ignorant cooks and most housewives boil dead many regetables, cereals and legumes in water and firow the boiled water in sink or sewer, may the water is sometimes even changed two or three times! All the mineral salts and vitamine are lost in this way. These salts, etc. are vitally necessary to health.

When the vegetables, &c, are thus rendered tasteless and flavourless, sauces, spices and condiments are poured over them in the vain effort to restore to them the lost taste or flavour. It must be remembered that there is not an iota of body-building material in the entire category of condiments, spicess and seasoning. "Instead they are all acid producers and a burden on the digestive apparatus.

These same foods, however, when cooked by the modern methods in contribution all the nutritive

and flavour elements, will have a nichness and individuality of taste that could not be equalled on imitated bthe most elaborate sauces and dressings.

We have long been eating foods cooked in a cooker After trying many makes of cookers, we find the on designed by the late Mr. Vajirav R. Guttikar, B ALL B., retired Sub Judge. Belgaum, and the High Court Judge of the Aundh State, to be the best simplest, most economical and efficient. We strong! recommend it to our readers. (Vide Chapter XIV.)

Last Word of Caution

Dear reader, we are out for Health, Efficiency and Longevity and we are not out for large prominent muscles Therefore, we would advise you to find out, for yourself the amount of the Namaskär exercise that is good for you as well as the quality and quantity of food that you need and the amount of work and recreation and rest.

One has personally to adjust the equation between work and rest, between sleep and wakefulness and between food and exercise by careful experimentation. General directions are all that could be given here.

There is a beautiful saying * in Marathi which means that men's constitutions differ as their faces and hence each individual must find out for himself the proper relations of study to play and of work to rest.

The Bhagavad Gitā says," He whose food and activity or exercise are properly regulated, whose toil and

* जित्रया व्यक्ति तित्रया प्रकृतिः

st are properly adjusted in all works, and whose eleep-2 and waking hours are properly determined, to such one does the highest benefit come " †

Proper selection, therefore, of diet from vital foods, rith fasting at frequent intervals, when coupled with rular, systematic Sürya Namaskars, will, in a single meration, produce wooderful improvement in health, rangth, vigour and bodily size of our people.

[ो] युक्ताहारविहारस्य युक्तवेपस्य कर्मसु । युक्तस्यमावधोगस्य योगो भयति सुःखहा ॥ , युक्तस्यमावधोगस्य योगो भयति सुःखहा ॥ ,

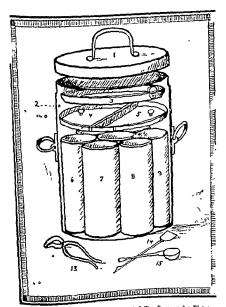
CHAPTER XIV

The Guttikar Cooker.

How do you enjoy your daily meals these days? Dyou honestly look forward to the table with keel anticipation? Or do you feel you don't need anything depressed about food altogether? If your meals, how ever simple they may be, are not a pleasure, you digestion is wrong. Nature has stored away in her food valuable mineral salts, vitamins, etc, whose function is to aid digestion. In ordinary cooking these salts etc, are often evapotated or poured down the sink. Not so with the Guttikar Cooker. It retains all precious salks, vitamins, etc, besides retaining or enhancing the taste and flavour of natural food articles.

We have made a passing reference to the Guttikar Cooker in Chapter XIII. But such a vast number of enquiries about this Cooker, nay several orders for it, were received that we thought it necessary to add a new chapter describing in some detail the usefulness and construction of, and instructions for cooking in, the Guttiker Cooker.

No lover of India can fail to notice that the daily family cooking absorbs most of the time of the Indian woman of the middle class. We and a few friends like the late Mr. Guttikar always thought that if some means could be devised to relieve our mothers, sisters and wives of the drudgery of cooking, a most valuable sorvice would be done to the country in general and to our women in particular.



1 15d.
 2 Big Pot 3 Circular Plate. 4, 5 Two Semicircular Plates.
 6-12 Sevon Inner Vessels. 13 Handy Lafter.
 14 Plat-headed Ladle.
 15 Ladle.

So long as man must eat cooked food, cooking is one of our daily necessities and it, therefore, behoves us to reduce the inconvenience, hardship and drudgery, connected with it as much as possible.

And the result of our experimentation and experience is the Guttilar Cooker, which is extremely simple, say, fool-proof. No other cooker can be simpler and at the same time more efficient.

Besides reducing considerably the housewife's drudgery and inconvenience, the Guttikar Cooker offers the following advantages:—

- (a) It gives you extra time to do other things.
- (b) The entire meal cooks at one time without the necessity of watching
- (c) It prevents food from burning, scorching, from gatting dry, or from remaining uncooked.
- (d) Foods keep their natural flavour, mineral salts, vitamins, and other food elements so necessary for health and body-building.
- (e) It renders food more tasteful, appetizing, nourishing and more digestible.
- (f) The aroms and flavour of natural food stuffs are brought out to a richness and fulness, never equalled by any other method of cooking.
- (g) When it is left on the grate or chauffer even an hour or two after cooking, the food will keep sufficiently hot and fresh.

We gire below the specification of our Standard Guttikar Cooker which can cook food sufficient for

about seven or eight ordinary persons. The accompany ing Illustration, which represents it, will show that i consists of—

- 1. The Lid.
- 2. The big cylindrical Pot, 12 inches in diameter and 11 inches in height.
- Circular Plate with handles, 12 inches in diameter and 1½ inches deep.
- 4-5. Two semicircular Plates, each 1½ inches deep, with knobs to handle them.
- 6-12 Seven inner cylindrical vessels to receive raw food material, each 4 inches in diameter and 8 inches high.
- 13. A handy iron Lifter.
- 14. A flat-headed iron Ladle.
- 15 An iron Ladle.

The whole cooker is made from brass sheet.

Vessels No 1 and Nos. 6-12 are coated with pure tin. Nos. 3, 4 and 5 are coated inside and out with pure tin.

In the hands of a novice in the art of cooking, the Guttikar Cooker is a safe guide. In the hands of an expert cook, it is a capital instrument with great and marvellous possibilities, as we have found by actual use for several years.

If cooking in the old way takes away much of your time, we want you to devote only 15 minutes in the morning and a little less in the evening. Charge the Cooker, light the fire and it does the rest. The

time and trouble thus saved is really an addition to the life of the housewife and Mr. Guttikar was proud—and rightly so— that he had helped to minimize her labour and to add to her comfort and longerity.

Letus finish with a pregnant passage from the works of Dr. Me Carrison, M. D. Oxford, England, one of the greatest modern authorities on dietetics.—

"The two chief causes of disease and death are food and drink.

"With increasing knowledge of nutritional problems, it has become apparent that our dietetic habits need remodelling and that education of the people as to what to eat and why to eat (and how to cook) is urgently necessary."

Directions for Cooking in The Guttikar Cooker.

Rice:-

- (a) Polished rice The proportion of rice to water should be 1:2 by measure.
- (b) Unpolished or brown rice the proportion of rice to water to be 1:2½ or 3 by measure

2. Pulses:-

For one measure of pulse use one measure of soft water. (If water is not sufficiently soft add a pinch or two of soda bicarb.)

3. Vegetables -

Whether they be fruit, roots, tubers, or leaves, use no water Cut them into thin pieces

slices and 'place them in an inner vessel or in one of the plates, seasoning them with a little salt, spice, grated cocoanut, etc., according to taste. A little tamarind and raw sugar is often used according to individual liking.

Whole potatoes, sweet potatoes, onions carrots and other tubers cook nicely and retain natural flavour when placed in the plate or pot.

4 Gramflour Cake:-

Mix gram flour or flour of any other edible legume with milk or curds or water to a slightly thick or semi-liquid consistency, seasoning it with a little salt, a dash of spice - such as coriander, cumin-seed, etc, according to taste. The addition of grated coconnut and onion will make the cake more tasteful and nutritions. Pour the mixture on a plate, smearing the plate beforehand with a little butter or ghec. Cut the whole cake when cooked into squares and serve.

5 Flour cake :-

Grind into grit or coarse flour the whole cereals such as, wheat, Bajri, rice, Jwari, maze, etc. Mix this grit with water or milk or curds to somi-liquid consistency and a little of ghee or butter, and if necessary with khismis (raising without pips) almond and grated coccanut and season it with salt or sugar according to taste. Pour the mixture upon a plate smearing it beforehand with a little butter or ghee; Cut the

whole cake into squares and serve. This dish will be found very rich, tasteful and appetizing

- Grand brown rice and black gram separately into grator rough flour. Take the rice grat and black gram grat in the proportion of 2.1 by measure. Soak the mixture in this sour butter-milk or hot water over night, add a little sait, black pepper and ginger according to taste. Four this semi-liquid mixture into the plate or plates.
- 7 (a) Germinate edible legumes and ceroals such as pea, gram, bean, lentil, wheat, maze bajir, etc and season them with ealt, ginger and other spices according to taste and add grated cocoa nut and sliced onion Place the mixture in one of the inner pots without adding water
 - (b) When pulse is to be used, soak it in pure water for two or three hours and treat it as above
 - Fill the big pot with soft drinking water about three inches deep so that after boiling an hour or an hour and a quarter, aboutan inch of water be left in the ve-sei Place the inner pots and upon them the plates with their con tents and close the pot with the lid, and place it on an iron grate with burning charcoal for an hour or an hour and a quarter according to quality of charcoal

9 Fuel --

Babul charcosl is best. The charcoal should be hard and big pieces and not small crumbles

Fill one of the inner pots with charcoal and that quantity will be enough. Put this quantity of charcoal in an iron grate and kindle it. A round iron grate with about six or saven inches

in diameter will do for a cylindrical cooker, 12 inches in diameter. Note- (a) Use soft, clean water in the smaller cooking pols as well as in the big pot. (b) Take special care not to allow even a grain or a leaf, etc.

from the cooking pots or otherwise to drop into the boil-

ing water in the big pot. (c) Do not place the cooker in a windy place. (d) When the cooker is charged and placed on the grate. \$ movice need not lift the lid (No. 1)to see if the contents are cooked, provided there is enough water in the big

pot (No. 2) and the charcoal is sufficient and burning.

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THCHAPTER XV.

ya Namaskars as a Preventive Constipation, Consumption and Premature Old Age

I · CONSTIPATION.

'1 WHAT IS CONSTIPATION ?

Constipation is a condition of the bowels in which the evacuations from the bowels are of insufficient frequency and amount, more or less faecal matter being; retained in the intestines.

- ? If one is called upon to express in one word the many and multifarious diseases from which the modern man is suffering, that one word will be constitution.
- .. Gonstipation is the bane of existence—the enemy of the human race.
- From constipation start more than 90 per cent of ills inasmuch as toxins or poisons from clogging food wastes flood the system and attack you in your weakest point.
 - Let us explain in the words of Dr A. B. Oslen, i. D., how Constipation affects the whole system, Normally, in a state of heelth, the gate that separates, as small intestine or diner, as we might call it, from he colon or garbage 'can,' works in one direction only, hat is, to let the waste substance into the large bowel, that the conic Constipation, the bane of so many millions.

its normal tone or strength and swings both ways. This allows the putrefying wastes again to enter the small bowel, thus directly interfering with both the digestion and absorption of food, and also poisoning the blood stream and thereby lowering vitality and opening the door to infection, leading possibly to colitis, appendicitis, inflammation of the gall-bladder," monstrual and pelvio troubles, convulsions, anemia, skin diseases, premature senility, paralysis, etc.

Poisons set up by Constipation give conditions favourable to cancer.

But the inroads of Constipation are so insidious that the sufferer often ignores them finding nothing very much out of the ordinary.

2 What causes Constipation?

There are a thousand and one causes of Constipation, practically all of them being preventable or correctable. But all this apparent multiplicity of causes can be traced to wrong diet or overcating, to bad habits and to lack of proper physical exercise.

Few people ever enjoy perfect health. You realize it in your own case. How often you feel below par. Not sick, yet not certainly 100% fit Science now tells us why this is so. Wrong diet or overfeeding and lack of exercise is the cause.

3 How to prevent or Cure Constipation ?

By drugs? The tendency of people suffering from Constipation is to turn to drugs for relief. They ask the doctor, "What shall I iake?" He invariably prescribes some cathartic or laxative. But all laxative drugs pills, potions or powders perpetuate this distressing ailment instead of curing it.

A balanced eliminative diet and proper bodily exercise will prevent and curs Constipation. We shall, however, confine ourselves to exercise only in this chapter.

As more unhappiness of the civilized folk is due to Constipation than to any other ailment, it follows that any form of exercise that will prevent and cure Constipation will claim more votes than its rival.

Considered in this light, the Surya Namaskar Exercise is pre-eminently calculated to give those movements to the abdominal muscles and to the entire digestive canal - movements that stimulate the peristaltic action of the bowels, on which alone depends a thorough evacuation of the waste matter of the bowels.

The muscles which are of primary importance and which are also most apt to be neglected and left unexercised by a normal man or woman of sedentary pursuits as well as by one of active business life, are those of the walls of the abdomen.

Even a cursory look at the chart of Sürya Namaskārs will show that the Positions Nos. 2, 6, 7 and 9 are specially designed to give to the abdominal walls those stretching and contracting movements, which best secure the elimination from the colon. And we want to emphasize this particular feature of Sürya Namaskārs In no other form of exercise do we find these stretching and compressing movements in a systematic manner.

In addition to the vigorous abdominal and intestival morements required to be made in doing Sürya Namaskur, one has also to say loudly the Pranava and Ein Syllables—Om hram, hrim, etc (a = zi, zi). Of these the Bija Syllable, zi (hraum) acts on the end partion of the colon, rectum and anns. This is borne out by the fact that the bowels, if refuctant in their tanction before bathing early in the morning, will open fively after about half an hour or so on finishing this apleunid exercise.

You will, 'perhaps, ask-" Why should I need the Surya Naurskir Course, when I work hard all day with plenty of exercise!" The best answar to this is for you to analyse your own bodily conditions. Remember that the reason you are not in the best of shape physically nud mentally is because you do not get the right kind of exercise. The Sürya Namaskar Course not only normalizes the bowel functions but builds you all over. No daily employment can do this, as all employments can at best develop and strengthou some parts of your body at the sacrifice of others.

4 Personal Experience

Constitution or the reduced activity of the bowels seemed in our case to be a family complaint passed down from father to son. This allment ran throughout our family. Our parents, brothers, and eistors suffered from Constipation and consequent niles "But "" ditary tendency is most likely nothing but a continu ation from generation to generation of the the same distatic and bygienic errors "For though, before we took to Sūrya Namaskārs some thirty-one years ago, we did a lot of other exercises systematically and continuously for several years, we suffered from Constipation, and naturally attributed it to heredity. This Constipation produced piles which had to be removed by operation in about 1909. The removal of the piles gave us great relief, but Constipation was still there But since we commenced doing systematic Surya Namaskārs with Pranava, Bua Syllables & Veduc hymns in 1909, Con stipation-the arch enemy-gradually diminished until it totally died away within a couple of years. Today we are quite free from it, though it is a matter of general experience that Constipation has a firmer grip in advan ced age This fact goes to prove beyond all doubt that had we taken to Surya Namaskars from our boyhood, there would have been no Constipation and no piles

5 Conclusion.

We, therefore, aftirm that of all the forms of physic al exercise the Sūrya Namaskars stand first and foremost in preventing and curing Constipation which is rightly regarded as the bano of civilized man, since it is the primary and prolific source of all di-eases that man is subject to

Then, bestir yourself, good reader, begin Sürya Nameskars today and attem Health, Efficiency and Longevity, which God intended for you

II Tuberculosis or Consumption.

Definition.

"Consumption or Tuberculosis of Lungs is a degenerative condition of the lungs due to changes in the lung tissues produced by the accumulation in the part affected of morbid and waste material circulating within the blood stream," says Bernarr Macfadden in his Encyclopedia of Health and Physical Culture, 1931 Edition, Volume VIII, p 3751.

In this article we have used the term Tuberculosis or Consumption in the sense of pulmonary or lung Tuberculosis.

2 Do Germs Cause Tuberculosis?

The germ-theorists hold that Consumption is caused by microscopic genus, called tubercule bacilli, because, they agrue, whenever any part of the body is attacked by Tuberculesis vast numbers of these germs are found in it, and, therefore, they conclude that these germs cause Tuberculesis, and at the same time they admit that people with sufficiently strong resisting power cannot be affected by these germs. Then it follows from this admission, as a corollary, that if the resisting power be increased there would be no fear of this bacillas—hones no fear of Consumption.

The increase of disease-resisting power is one of the attainments achieved by our system of Namaskar exercise-

"Only when the soil is first propertd upon which the tubercule bacillus can thrive will its depredations become noticeable. It is, besides, a question whether the bacilli are the cause or the result of Tuberculosis.

Germs, moreover, of various kinds, such as diphtherial, typhoidal, malarial or tubercule bacilli, are found in the throat or spittle of healthy persons who are, nevertheless, not brought down with the disease which is suppsed to be caused by the particular germ. The average dweller in a city breathes and swallows millions of disease germs. Now if there was anything in the germ theory, the workers and employees in mills and factories where thousands of people congregate would soon fall victims to some stroug disease. But there are no manifestations of this nature.

We, therefore, wish to empasize with all the power we possess that if you have acquired and retained vigorous health and resisting power by doing the Namaskär Exercise, you need no more be afraid of germs than of the man in the moon.

3 Havoc Played by Consumption.

It has been estimated that one-fifth of the human race succumb to Tuberculosis, yet how little ordinary persons know about it.

- "The greatest brains of the medical profession have sought a specific remedy for years. They still saek it, Humanity waits"
- "A Tuberculosis" says Dr. Chunilal Bose, C. I. E., M. B. Rasayanacharya, in Liberty, Cacutta, July, 28, 1929, "shows a steady increase in its, incidence and mortality from year to year in large towns both of

4 The infallible Remedy.

The habit of seeking pure, air. by, sleeping out of doors at night and living out by day, does not bring about maximum results sought for, though it helps convisiderably to cure and pravent Consumption.

The only infallible remedy for the cure and prevention of pulmonary Tuberculosis or T. B. lies in the correct method of Deep Breathing or Pranarama, as we, call it. It consists in full inhalation, holding of breath and complete sthalation—all through the nose only with the mouth shuts.

The expression. Deep Breathing is generally taky, ent to mean filling one's lungs with air with a view to interesse their capacity. But the secret of Deep Breathing is not so much in the method of inhalation as is in that of exhalation. The manner of exhalation as expounded by all of our authorities, such as Patanjali, Yajnavalkya vasistha, Hata-Yoga-Pradipika, Amrita-Bindu-Upa-u nichad, etc., is to slowly exhalt through the nose only and "to press in or squeeze, the bolly as her as one acan do in order to expel all the toxin-laden air from the along.

Most of the modern American and European, authorities on Deep Breathing agree with our principle, and method of exhalation.

The positive cure of consumption and the guaranteed prevention of pneumonia depend not on how much air you inhale but on how much you exhale.

Now, you will see how this Scientific method of exhalation is adopted in our Namaskär Exercise. In performing one Namaskär one has to squeeze or pull in the belly three times to secure complete exhalations, i. e., in Positions 2, 5 and 9. In other words, one has to do three Deep Breaths in one Namaskär. You thus do automatically as many as 75 Daep Breaths in performing one round, i. e., in doing 25 Namaskärs. In four rounds of Namaskär Exercise, which an average man or woman can easily do within 30 munutes, you actually do 300 Pränäyäms or Deep Breaths, i. e, 300 full inhalations, 300 retentions of breath, and 300 complete exhalations!

No germs, therefore, if any, can approach you nay, you can defy Consumption if you will but do the Namaskar Exercise daily and methodically.

The value of the Namaskär Exercise, when practised in open air with correct breathing and with the bare body exposed to the vitalizing ultra-violet morning auge of the Sun, can hardly be too strongly emphasized.

Thus, when regularly, systematically, daily and carefully done, the Namaskar Exercise will prove both a cure for, and a preventive of, pulmonary Tuberculosis.

III. REJUVENATION.

Premature old age and premature death are tragedies. The spirit of youth is always and everywhere desirable, nay, absolutely necessary. It is well-said that "it is better to wear out than to rust out". An old man or woman, though taking exercise, may not be quite as springy and as nimble as a youth or a maiden, nor should one expect to have "a twenty-five face on a seventy-five body," but discontinuance of all bodily and mental activities will invariably bring about rapid degeneration and decay.

See what our great Shankaracharya says about the value of life:

आयु सणलवमार्त्रं न लभ्यते हेमकोटिमि स्वापि । तथेद् गच्छति सर्वे सृपा ततः काऽधिका हानि ॥

- " Prabodha-Sudhakar , " 1,16

(Millions of sovereigns cannot buy a minute of life. If such a priceless life is spent in vain, there is no greater loss!)

In ceaseless but futile search for the fabulous "Fountain of Youth", countless soothsayers and sorcerers, wise men and fools, have been importuned for some mysterious concoction, some magic compound, broth or brew or implantation of a monkey's gland, which would serve to rejuvenate the body and lengthen life. The best and surest way, however, to get to the "Fountain of Youth" is the faithful daily performance of Sūrya Namaskārs, frugal natural diet and right mental attitude.

If you have reached that point where vitality is scressing, if you feel yourself slipping, steps should a taken at once to fortify yourself against the disease ad decrepitude. Take to the Sürya Namaskar Course tonce and you can step aside and can have vigorous with and freedom from sickness and premature saility.

The following conditions, among others, are univerally regarded as indispensable for "making old bodies oung":--

(a) STRONG, STRAIGHT and PLYRIBLE SPINE.

A straight spine is one that enables you to carry our body erect The central nervous system consists of rain and spinal cord with nerve ramifications radiating broughout the body. It is the spinal cord that represents ite. It it be diseased death will follow; if it be unhealthy be body will be unhealthy. If this nervous system be out functioning normally, all the involuntary actions of he heart, stomach, liver, kidneys, glands, etc., will fail o work properly.

(b) A Stroyd Back

A man is as strong as his back. When most old people are seen with their spine and back bent forward, it is generally thought that a curved back or round shoulders are inevitable in one's decline, which is, however, wrong. Proper care and regular exercise will prevent this weakness and ugliness

(с) А Ѕтвоча Вгонасц

After about 55 or 50 one should have only one meal within twenty-four hours. Over eating, wrong eating

or intake of stimulants and drugs produces congestion of undigested food in the colon and this is one of the causes contributing to constipation, which "mothers a broud of diseases"

An abstemious low-protein and low-starch dist replenished with fresh green vegetables and fruit is conducive to health and longevity. Dietetic errors and lack of proper exercise bring about premature sendity and death as in the case of Golhale, Tilsk, Coolidge, Theodore Rossevelt, etc.

(d) Colon CLEANLINESS

Most people are likely to conclude that because their bowels more once a day, they are therefore, free from constipation But how and how many times they open is the question You must, therefore, get your colon examined and see that it is neither encrusted nor engorged.

(.) FLEXIBILITY OF JOINTS

A majority of old folk suffer from stiff jointsjoints affected with rhoumatism or gout, as a result of over eating or wrong eating and lack of proper exercise.

(f) At sever or Oaksity.

It has been found that obese or corpulent persons are short-lived. If you wish for active longevity the girth of your abdomen must be considerably less than that of your chest.

(g) DEEP BREATHING.

A strong heart and good pair of lungs make for

vitality, endurance and longevity, and so are well worth cultivating. Any kind of exercise will, of course, help to do this to a certain extent. But if breathing exercies are also included, the chest will be widened and deepened so that greater space will be secured for the heart and lungs to function. Deep breathing and spine stretching are particularly valuable in age. It is for this reason that the Namaskar Exercise is pre-eminent by adapted to the aged in that it involves systematic deep breathing and spine stretching.

(h) Acrive Skin

It is not generally recognized that the greatest single excretory organ is slin, upon the proper function of which depends to a large extent the health of man No real reason exists for loading ourselves with burdens of unnecessary clothing in our country and in any country for that matter At a conservative estimate clothes must be responsible for more than ten or fifteen per cent of disease and for a considerable portion of the cost of living Daily exposure to fresh air and sun will render the skin active and young

(i) Youthpul Spirit

"A man is as old as he feels - is an adage that holds with greater force in the case of those of advanced age The minute he loses faith in his youthful spirit and begins to feel like an old men and adopts the manner of an old man, he will rapidly get old Faith is the dominant principle in man

K. T. Telang's interpretation of the above - "A being here is full of faith, and whatever is a man's faith that is a man himself."

As soon as a person retires from his usual service or work, he thinks that he is old and has nothing to do in the world but to spend the balance of his life in laxiness under the groundless apprehension that any bodily activity or exertion would shorten his life. But he should remember that it is tusting out and not wearing out that really causes premature sentility and death. Youthful spirt always depends upon the activity of body and mind Bodily activity and mental activity are interdependent. Go, therefore, with the freling that you will erem continue young and active and you will remain active and young and" will enjoy life with all the gusto of youth - with pshaps a great deal added to it"

(1) ACTIVITY OF BODY AND MIND

Our holy, Vedas enjoin thus -

कुर्यन्नेयंह कर्माणि जिजीविषेत् शर्त समाः।

chukla Yajurveda, 40/2

G R S Mead and J C. Chattopādhyāya render the above:—" Here, on the earth, such deeds performing, a man should will to pass his hundred years."

"There is no necessity for retiring at any age, if a man is intensely interested in certain kinds of work there is no reason why he should not continue such activity practically to the end of his days.

"For an active person to sit down and do nothing is equal to a death sentence. And to have nothing to do but to search for pleasure becomes obnexious after a while. "To feel that you are accomplishing something worth while in a source of unlimited satisfaction.

"In distant past-thousands of years ago-when we were ided by instinct-before the days of machinery, commercial and litical greed, doubtless we lived a perfect life.

"To-day we need intelligence to guide us. And if you are inus this required attribute you will have to pay for your norance; and it may result in your losing life's most valuable "seasion-youth-prematurely by scores of years."

- Bernarr Macfadden

in " Physical Culture" for December, 1939.

Mental activity is as necessary to health as bodily univity-and especially so in old age. It is found from statistics that the professional men and mental workers, such as scientists, philosophers, theologians, etc., ive longer than mere manual workers and those given to hard bodily labour.

Concentration is a faculty of mind indicative of its strength and energy.

"A long life measured in years is of value only if it means the preservation of one's mentality and personality up to the last of these years."

If you want your mind and body to function normally they must both have some suitable occupation or exercise as long as they exist. "When we stop learning, we begin to deteriorate, and it is then merely a matter of time ere Father Time beckons us to the Great Beyond."

It is but natural for man to wish for a long life and perennial youthful spirit. But many, instead of obeying the wise laws of nature, simply waste their time, mone and energy in the vain search of the fountain of you or the cliric of life, which is really to be found in one body itself, not to mention the mad craze for countles specifics, patent medicines, drugs and dopes, in order t prolong their life.

A careful perusal of the previous chapters or bette still your daily practice of Namaskär exorcise with balanced abstemicus diet will not fail to convince youthat all the aforesaid conditions will be falfilled by the systematic daily performance of the Namaskär exercise which with its different positions, deep breaths and concentration develops and strengthens the brain, spine, back, stomach, heart, lungs, intestines, etc., which are the power centres of humanity.

Thus the Namaskar exercise will bring about rejuvenation by preventing premature old age and dotage



CHAPTER XVI.

What Can Surya Namaskars Do?

NOTE:— How to prevent the common silments—Constipation, Consumption and Decrepitude—is described at some length in Chapter XV and slewwhere. In this Chapter we give a summary of some of the other maladies, defects, weaknesses, &c., that can be provented and cured by the Namaskar Exercise and other benefits derived from it.

When done daily, systematically, correctly and faithfully and according to our instructions, the Sūrya Namaskār Exercise —

- Strengthens the entire digestive system (including stomach, pancreas, intestines, liver, etc.) and cures and prevents constipation.
- Invigorates the nervous system (including the brain, spinal cord, solar plexus, &c.) and cures brain-fag, forgetfulness, worry and other forms of mental derangement. Though shattered nervos take a longer time and are more difficult to repair than other cells, our graduated course of Sūrya Namaskārs will slowly but surely restore them to normality.
- Invigorates the heart and will cure and prevent blood-pressure, palpitation, &c.
 - Develops the lungs, gives "wind" and pre-

- Improves the quality and circulation of the blood. Active circulation of the blood is the first law of health.
- 6. Stimulates glandular activity; gives a new vivacity to the glands. Owing to the stretching and compressing movements of the throat and neck the thyroid gland is stimulated and any tendency to goitre is obviated. Correct glandular functioning governs health and attractiveness.
 - Improves the colour and function of the skin by enabling it to enadicate toxic impurities through profuse perspiration and to absorb vital energy from the atmosphere. A clear skin glowing with ruddy health and vigor is a winning factor for men and women in business and social life.

7.

8.

- Strengthens the neck, sheulders, arms, wrists, fingers, back, stomach, waist, abdomen, intestines, thighs, knees, calves and ankles. Strengthening the back is known to be a simple but efficient remedy for kidney troubles.

 Improves and develops the bust of maids and
- Improves and develops the bust of maids and matrons, i. e. keeps it hard, firm and elastic, restores it to normal loveliness; improves small, flat, undeveloped breasts or those once beautiful but now thin, shrunken and flabby.
- Improves the nterus (womb) and ovaries, removes menstrual disorders such as dysmonorrhea and consequent pain and misery; renders

child-bearing less painful and more easy. All discomforts from menonause vanish.

- Will rid womanhood of "morning sickness" and 11. perverted taste and appetite, peculiar to pregnant women and regarded as inevitable.
- Increases the quantity and improves the quality 12.
- of milk in nursing mothers. Prevents falling off of hair, lessens its tendency 13. to grayness and prevents baldness by increasing nutrition to the hair and scalp, as the bending of the neck backward and forward, insures good
- circulation to the head. Eradicates sexual debility, will banish the 14.
 - special weakness of men and women, will make every man a virile and vital specimen of masculinity and will make every woman a eplendid epecimen of womanhood,
 - Reduces redundant fat, especially the fat about 15. abdomen, hips, thighs, neck and chin. Will remove kidney troubles. 16.
 - Strengthens the stomach, neck, back, and chest 17. by the mere pulling in of the stomach towards the spine, as in Positions, 1, 2, 5, 7, and 9.
 - Reduces the abnormal prominence of the 8. Adam's apple by the forward and backward bending of the neck.
 - Destroys the offensive odour of perspiration. 9.

Reduces bowleggedness.
 Improves knock-knee in walking by Positions

2 and 9.

- 22. Prevents and cures neurasthenia, when correct
- rhythmical breathing is done.

 23." Will increase the height of the body if the
- Positions 2 and 9 are correctly performed by placing the palms flat on the ground and touching the knees with the forehead, keeping the knees perfectly straight.

 Compressing and stretching the spinal column as

in Positions 2, 3, 6, 7, 8, & 9 will also increase height.

24. Will produce direct mechanical effect upon the

- 24. Will produce direct mechanical effect upon the alimentary canal by Positions 2 and 9 and will prevent and cure constipation.
- 25. Not merely gives you external form, shapeliness and muscle of the body, but improves and normalizes the function of most of the vital internal organs.
- 26. Makes you immune from disease by tremendously increasing your disease-resisting power.
 The practical test of health is that one should
 never have even ordinary cold or cough, should
 is regarded even by some medical men as inevitable or as a matter of course. A healthy
 person never feels that he has any organ or
 limb

- 27. Takes you step by step quickly, easily, surely, from your present condition to the very height of physical perfection.
- 28. Is the quickest method for increasing and maintaining youthful buoyancy. The spirit of youth represents an invaluable assot. It is wonderful and satisfactory to know that you are fit and getting the most out of life. Then you have the jump on your followmen.
- 29. Gives you Poise, mental as well as physical.
- 30. Endows the performer with more mental and psychic power and instills a theistic attitude in her or him gradually. It increases the power of mental concentration, optimism and selfconfidence.
 - 31. Is the foundation of healthy and sane life and will be of incalculable benefit to you throughout your life. Long, systematic, continuous and daily practice of Sürya Namaskirs and right diet, as outlined in Chapter XIII, will, in addition to vibrant health and radiant energy, invariably create in you a dislike for all stimulants and sedatives; an aversion to hot things such as capsicum or chilly, pepper, spices and condiments; a disrelish for fired articles in general; and to top them all, generates in you the inestimable habit of abstemiousness, which will help you to live long. "The instances of longevity," says Sir W. Arbuthnot Lane,

Bart., C. B., England's great surgeon, "are chiefly among the abstemions" In fact, you gradually become partial to "Sātvika" diet, as defined in the Bhagavad Gıtā, XVII, 8-

आयुः सत्त्वयद्यारोग्यंसुखभीतिवित्रर्धनाः । रस्याः स्निग्धाः स्थिरा हत्ताः आहाराः सात्विकप्रियाः ॥

(The kinds of food which increase life, vitality, strength health, pleasure or joy of living, cheerfalness and philanthropy of follow-feeling, (and) which are juicy, fatty or oily, substantial, solid or giving lasting satisfaction to hunger and delicious or heart strengtheners, are dear to the Satvika or the good.)

- 32 Will keep you away from sins, for sin is the product of weakness and disease
- 33. Will generate in you good thought, optimistic thoughts; will give a charitable and sanguine turn to your disposition and will imbue you with a spirit of self-sacrifice for the good of your community, your country and your king.
- And will, in short, unlock the door to glorious Health, Strength, Efficiency and Longevity, which God intended for you

You will thus see that the Namaskar Exercise possesses the unique feature of co-ordinated actions of all the vital organs, nerves, muscles and other parts of the system, which are stimulated, developed and streng-thened simultaneously -- a result not achieved by any other single exercise.

We do not profess that the Sürya Namaskärs are panacea for all the ills that the human flesh is heir to, ut we do claim that this system of exercise, if loyally ud steadfastly followed, will reward the performer with uperb Health, vibrant Energy, active Efficiency (and 186ful Longovity.



CHAPTER XVII.

Cash Value of Health.

Most people think that if they did more business they would enjoy life better, but they forget the fact that if they enjoyed life better they would do more business. Unless they are healthy they can never enjoy life, "The man, who comes down to business in the morning with a smile on his face, has taken a long step towards making the day a successful one," Man's first duty, therefore, is to acquire superb health. Your success financially and socially depends upon your health.

Says Emerson, "The first wealth is health. Sickness is poor-spirited and cannot serve any one; it must husband its resources to live. But health or fulness answers its own ends, and has to spare, runs over and inundates the neighbourhoods and creeks of other men's necessities."

The annual loss of industry and commerce, not to mention the privation entailed on private families, brought about by illness and physical inefficiency on the part of the individual workers alone is beyond computation.

The Minister of Health said in one of his recent reports that in England alone 25 Million weeks' work had been lost owing to ill-health.

Sir George Newman, the chief Medical Officer of Health, recently (1980) told the Health Education Congress that Britain spends not less than £ 20,000,000 a year on sickness and disablement benefit and the State treatment of disease, and that much of this would be saved if people lived according to the principles of hygiene. It is necessary, he added, to teach toople the tray of personal health, as they have not learned the lesson.

Sir George Newman's remarks apply to India a fortiori. Most illnesses and consequent loss of time and money are preventable. People generally need to learn how to live so that they may prevent disease from defeating their highest aspirations and how to live a life of radiant health. We have stressed this point many years and have clearly demonstrated that if the people of our country, or any country for that matter, would only adopt the principles of correct, proper exercise and natural living as outlined in this book and elsewhere, the nation would be saved coross of Rupees and thousands of valuable lives. Truly, sickness is a costly business and the obvious antidote is health education along natural lives in schools and colleges.

Dr. W. R. Lucas has this to say in his "Health Philosopher", May, 1936—"To-day it is estimated there are more deaths from nervous diseases than all forms of tuberculosis. Recent enquiries reveal that 31.67 men and 36.04 women of every thousand examined, between the ages of 16 and 64, were certified as incapable of work and suffering from 'anxiety neurosis, otherwise known as fear of difficulties connected with financial, domestic or occupational matters."

If this is the deplorable state of things in England, one of the wealthiest independent nations-just imagine

the miserable and pitiable condition of India as regards anxiety neurosis.

Time has now come that some strenuous effort be made in all seriousness to overcome this national degeneration and economic inefficiency. Till now a number of different ways and methods have been tried with little success

In spite of the so-called advance of the medical science, the incidence of disease romains today appallingly great. Old diseases are on the increase and new ones are coming into existence All this is entirely due to the inexcusable or culpable neglect of the wise maxim-" Prevention is better than Cure." All our energy should now be directed to adopt immediate measures to prevent rather than to cure disease. Some scientific and systematic form of bodily exercise, therefore, should in addition to general health education, be enforced upon the young generation in general and upon the school and college going students in particular.

The Sürya Namaskär Exercise coupled with simple natural diet is the only means that can save our country from the enormous loss of money brought about by preventable disease. We, therefore, strongly recommend that the Namaskär Exercise be made compulsory in all the schools and colleges throughout India.

CHAPTER XVIII.

THE SURYA NAMASKAR EXERCISE ALONE DESERVES TO BE UNIVERSAL

In addition to the merits of most other bodily exercises, the Surya Namaskar Exercise possesses the following specialities —

 The Surya Namaskar Exercise strengthens the spinal muscles and stimulates the nerves located in and along the spine, which is fully

Strong herres stretched and compressed in every Namaskar Position.

Nerves are fibres which proceed from brain and spinal cord and ramify through all parts of the body and whose function is to convey sensation and originate motion or energy Spine culture as represented by Surya Namaskars is as old as humanity itself, yet it is new as a daily newspaper. It strikes at the very root of ill-health and attendant troubles and leads to glorious health and energy.

2. Though obesity is nearly always traceable to fleshand fat-forming foods taken in excess of the body's requirements lack of exygen or shaness inclined exercise is often the

slimness insufficient exercise is often the cause of obesity or reduntant fat

"So many fine looking men and women are neither so strong, so healthy, nor so youthful as they are beheved to be. The popular dae that flesh provides a bulwerkageinst disease, is quite erromeous Quite as often as

not it foods disease, conduces to disease or masks physical deterioration.

"Obosity, in fact, provides a fleshy facade behird which physical deterioration can proceed apace"

From our own experience and that of many others we assort that the Namaekar Exercise is sure to reduce you excessive fat and relieve you from the perils of corpulence It will not only reduce the superfluous fat but will greatly increase the vital energy

Lafe Insurance Companies' mortality statistics reveal the startling fact that persons below accage ueights have far the best chance of reaching a ripe old age Obesity shortens life Corpulent people are martyrs to indigestion, heartburn constipation, and a number of kindred ills

3 "Constipation, like so many other complaints is
not so much a disease in itself as
Constipation an evidence of bodily ill health
In other words, costiveness is

In other words, costiveness is often due not to any weakness or defect of the bowels themselves so much as to general debility, bodily ill health, and above all, evertation

"The sufferen from constipation should not, therefore, delude himself into thinking that the trouble is only in bowels. Constipation is more a symptom than a primary malady. It is chiefly due to faulty diet and lack of proper exercise.

All the performers of Surya Namaskars will testrify to the effectiveness of this unique exercise in generating increased nerve power to the entire alimentary canal. Hence the Surya Namaskar Exercise is an antidote to constipation and attendant maladies (Vide Chapter XV.)

4. How tuberculosis can be prevented and rejuvenation attained by systematic Tuberculosis and Rejuvenation. Surya Namaskar Exercise is fully explained in Chapter

XV.

5. The Namaskar Exercise gives you poise, bodily as well as mental. Reflect upon what Powe. Grenville Kleiser says about poise in

"Vigorous Health" Magazine, May, 1936— "Poise is power under control. Poise stores up energy and holds it in reserve for special use. Poise keeps you calm and deliberate under varied circumstances Poise does not mean listlessness, nor indifference, but strength, reserve and self control.

"Work done in poise confers pleasure upon the worker, because such work is likely to be thorough and intelligent Poise conserves energy and gives balance to endearour."

6. The Surya Namaskar Exercise is suitable for any person, male or female, young or old, rich or poor

7. It admits of being done singly or en masse-in groups.

8. It can be taken anywhere—in a room or in the open.

- 9. It requires very little space.
- 10. It takes a very short time.
- 11. It can be done at any time-day or night.
- 12. It can be performed in all the seasons of the year.
- It requires no companion. 18.
- It needs no apparatus or outfit. 14.
- 15-No special previous training or preparation is necessary.
- It involves absolutely no expense. 16
- 17.
- It can be taken throughout one's life. 18. It builds, develops and strengthens the rehole body
- externally and internally. It receives hearty support and co-operation from 10 the parents and guardians of students
- It instils self-confidence into the performer 20.
- It keeps the performer always fit as a fiddle, both 21.
- in body and mind No worry. No tiredness. The most distinctive feature of the Surva Nama-
- 22. skar Exercise lies in the fact that in other exercises and games we generally fix our mind on the right performance of them, while in doing the Sūrya Namaskar exercise we concentrate mind to secure Health, Efficiency and Longevity.

As no other single game, sport or exercise can fully give all these benefits, the Surva Namaskar Exercise deserves to be Universal and we therefore, recommend with all the emphasis at our command that it be made compulsory in all of the schools and colleges throughout India.

CHAPTER XIX.

Conclusion.

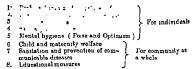
Before concluding, we should like to place before the reader for his consideration the following extract from the article, "Expectation of Life," by Dr. Radha Krishna, M. B. B. S., published in "The Vedic Magazine," Lahore, for September, 1927, on the subject of longevity, remedies for individual health, etc:—

REMEDIES SUGGESTED FOR INCREASING THE EXPECTATION OF LIVES IN INDIA.

Before suggesting the remedies, it is worth while to consider where increased expectation of life or the extension of life is really necessary Dr. Spivester Graham thinks life can be extended only at the cost of intensiveness, because intensive and extensive are incompatible with each other. But it has been amply proved by the modern physical culturists that by proper methods, life can be made both extensive and intensive without secrificing one for the other. Extension of life is also necessary because of .—

- The enjoyment Peculiar to old age. Healthy old age is really the highest blessing.
 - 2 From nations' standpoint, an old intellectual man of 80 is a valuable asset of his country, playing his part as advisor and judge, being endowed within long experience of life and devoid of all passions of hat and concent. He is more valuable than he was at the age of 40 and allos more valuable than two men of 40 years each under the conditions. It has been truly said that the death of healthy old people soon after the age of 50 is a national calamity. The extension of his should, however, be associated with the preservation of intelligence and of the power to work, for which the following aids are suggested by various authorities at arrives times.—

REMEDIES-



One can mention only the names of the remedies here, the extension and description of each remedy demanding an estay for itself. One can briefly mention however, a few of the reputed programmes for increasing the expectation of life.

For individuals, the following 15 rules of hygiene as suggested by the 1 ife Extension Society of America, a society of 100 selected men of America, are the best —

A - Air.

- 1. \ entilate every room you occupy.
- 2 Wear light, loose and porous clothes
- 3 Drill, out of door occupation, recreation and exercise
 - 4 Sleep out if you can
- 5 Breathe deeply

B - Food

- 6 Avoid over eating and over-weight,
 - 7 Eat sparingly of meat and eggs
 - 8 Eat some hard," seme bulky, some raw foods
 - 9 Eat slowly.

[•] Crisp and hard whole meal bread induces thorough matination and insalivation — most important sids to easy people and intestinal digestion, while the presence of roughage in the form of fine bran farours the normal action of the bowels Such bread and bottler form pofectly balanced food.

C. - Palsons.

- 19 Francate thereughly, regularly and frequently.
- 11. Stand, sit and walk erect.
- 12. Do not allow poisors and infections to enter the body.
- 15 Keep the tooth, sums and tongue clean.

D. - Activity

- 14 Work, play, rest and sleep in moderation,
- 15 Respiserere.
- "The underlying idea in framing these rules being that they should be :-
 - 1. Not artifejal, but ratural.
 - 2. Not diffcult, but ency
 - " There rates when followed --
 - 1. Delay decay and death.
 - 2. Avoid individual and recial deterioration, and
 - 3. Prevent disease "

A careful perusal of the above excerpt will clearly show how natural and easy our Sürya Namaskärs are and how when coupled with proper diet and fasting they will bring about results identical with those commonated in the last paragraph of the aforesaid quotaion.

Before concluding we should like to draw the attention of the reader again to the important fact that in other exercises and games we concentrate our mind on the right performance of the exercise or game, while in doing the Nameskir Exercise we devote or fix our mind to secure Health, Efficiency and Longevity. In conclusion, we have no hesitation in assuring our readers—men and women, old and young, rich and poor, strong and weak- that a faithful practice of the Sūrya Namaskārs in accordance with directions laid down above, and coupled with proper diet and fasting, will reward them not only with individual but with National Health, Efficiency and Longevity for the service of their country and of their king.

Attribux 1.

Unabridged Surya Namaskars with the Pranave, the Bija syllables and the three Vedic Hymns, as recited by the followers of Rigreda and Krishna Yajurveda -

អ្វ: អ

त्वाकल्पनमस्काराः ।

आचम्य प्राणानायम्य । ममामन श्रुनिस्मृतिपुराणोक्तप्रच्याप्यर्थे श्रीमितितुम्प्रीनारायणशीयर्थे च तृचाकत्पितिचना नमस्काराण्य कर्म करिएवे ।

[पात्रे व्ह मृतीना तन्मव्ये मधाश्रतपुष्पाणि क्षिप्ना]

ष्पेय सदा सनितृमण्डलमध्यत्रती । नारायण सरसिनासनसनिभिष्टः ॥ केयूरनान मकरकुण्डलनान् किरोटी । हारी हिरणमयनपुर्वृतराखचक ॥

(इति ध्यात्वा)

१ ॐ न्हा टचन्नच मित्रमह न्हा ॐ मित्राय नम । ३० उठ व्हीं आरोहन्स्तत्तरा दिव न्हीं अ**ँ** (तये नम्। ३ ॐ ऋ ह्योग मन सुर्य ः उँ अर्थयमा। ४ ॐ है हरिमाण च नाशय न्हें ॐ भ नव नम । ५ ॐ हीं शुक्रेषु में हरिमाण न्हें। ॐ खगायनम । ह ॐ व्ह रोपणाकामु दम्मसि व्ह ॐ पूर्ण्ये नम । ं ॐ व्हा अयो हारिद्रनेषु मे हा ॐ हिरण्यगर्भाय नम् । ८ ॐ व्हा हरिमाण निदम्मिस व्ही ॐ मरीचये नम । < ॐ व्हू उदगादयमादित्य न्ह् **3**०ँ आदित्याय नम् । १. ॐ व्हें विश्वेन सहसा सह व्हें ॐ सनित्र नम ।

- ११ ॐ व्हैं। द्विपन्तं महां रन्धयन् व्हें ॐ अर्काप नमः। १२ ॐ व्हः मो अहं द्विपते रवं व्हः ॐ भास्कराय नमः।
- १३ 🕉 व्हांव्ही उद्यन्नद्य ित्रमह आहिन्नुत्तरांदियं व्हांर्वी 🕉

मित्ररविभ्यां नमः ।

- १४ 🕉 चूर्वे हुड़ोग मम सूर्य हरिमानं च नाशय चूं वैं ॐ स्र्यभातस्यां नमः ।
- عُمْ عَلَىٰ عَلَىٰ عَلَىٰ १५ عَمْ रहें। रहः शुक्रेपु में हरिमाणं रोपणाकासु दध्मसि र्रहीं रहः عُمْ खगपूपस्या नमः ।
- १६ ॐ व्हां व्हीं अने हारिद्रवेषु में हरिमार्ग निदम्मसि व्हां व्हीं ॐ हिरण्यगर्भमरीचिभ्यां नमः
- عُره و الله عَنْ ﴿ وَ عَلَمْ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ ﴿ وَاللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّ आदित्यस्वितृभ्या नमः। १८ ॐ न्हें। न्हः द्विपन्त मत्द्य रन्धयन्मो अहं द्विपते रथ न्हें। न्ह: ॐ
- अर्कः।स्कराभ्या नमः। १९ ॐ न्हां व्हीं न्हूं व्हें उद्यक्तय मित्रमह आरोहन्तुत्तरां दिवं हृद्रोगं मम सर्थ हरिमाणं च माशय न्दा न्दी न्हूं न्हें ॐ मित्ररिन-
- सूर्यभानुम्यो नमः । २. ॐ व्हीं पदः पहां पढी शुक्रेषु मे हरिमाग रोपणाकासु दम्मसि अयो हारिद्रवेपु मे हरिमागं निदम्मसे न्हों न्हः न्हा न्ही ॐ
- खगप्रपहिरण्यगर्भमरीचिभ्यो नमः। २१ ॐ व्हूं व्हें व्हों व्हा उदगादयमादित्यो विश्वन सहसा सह द्विपन्तं महा रन्धयनमी अह द्विपन्ते रन्ध न्हें न्हें। न्हः ॐ आदित्य-

सवित्रर्कभारकरेभ्या नमः ।

२५ ॐ भीमवित्रे सूर्वनारायणाय नमः ।

आदित्यम्य नगरकारान् ये कुर्वन्ति दिने दिने । जन्मान्तरसद्देवद् दारियं मोपजायते ॥ १ ॥

नमी धर्मविषानाय नमन्ते कृतनाश्चित्रे । नमः प्रायश्चदेयाय भारतराय नमोनमः ॥ २ ॥

श्रमेन त्चाकत्यनमस्कारार्येन फर्मणा भगतान् श्रीमवित्स्यं भारायणः श्रीपतामः । न मम ।

> अकाल्पृयुदरणं सर्वव्याधिविनात्तमम् । सूर्यपादोदक तीर्थं जठरे धारमाम्यदम् ॥ ३ ॥

> > (इति तीथे गृहीत्वाचमन कुर्यात्)

These three Vedic Hymns with their translation will be and on pages 44 & 45.

APPENDIX II.

Unabridged Surya Namaskars with the Pranava, the Bija syllables and the Vedic Hymn as recited by the followers of Shukla Yujurveda:--

।। श्रीः ।।

हंसकल्पनमस्काराः ।

आचम्य प्राणानायम्य ।। तिथिविष्णुस्तथा वारो नक्षत्र विष्णुरेत च योगध्य करण विष्णु सर्वे विष्णुसयं जगत् । अदाष्ट्रश्रेषारितेदंगुणश्चिषेण विशिष्टायां द्यामपुण्यवियो ममात्मनः श्रुतिस्मृतिपुराणोक्तफळपास्यर्थे श्रीस-विलुसूर्यनारायणदेवताशीस्त्रपै च शीईसक्रस्पेनोक्तिपिमा यथाशक्ति नम्-स्त्रारास्त्र्यं कर्म करिय्ये ।

अथ ध्यानम्ः — ध्येयः सदा सविद्यमंडरूमध्यवती । नारायणः सरसिजासनसिश्रविद्यः ॥ केयुरवान् मक्तरङ्गण्डल्यान् किरीटी । इ.सी हिरण्यवयुर्वृतश्रेखचकः ॥

१ ॐ व्हां हंसः श्रविपता उँ द्वां मित्राय नमः। २ ३० व्हाँ वसस्ति क्षिसत ॐ व्हीं सबये नमः। ३ ॐ इं होता वेदिपत ॐ व्हं सर्वाय नमः। ४ ॐ व्हें अतिर्विर्देशेणसत् 30 की भानवे नमः। પ, ૐ વ્ફીં સૃષત્ अँ व्हीं खगाय नमः I ॐ व्ह्रंपूर्णोनमः I ६ ॐ न्द्रः बरसत ॐ व्हा हिरण्यगर्भाय नमः । क्रफ़ाइन्ट्रं क्रां क्र ॐ व्ही मरीचये नमा। ८ ॐ न्हीं ब्योमसत

ॐ न्हं आदित्याय नम:। ९ ॐ प्हं अस्त्रा गोजाः

ॐ व्हें सिन्नित नमः I

ॐ व्हां अक्तीय नमः। ११ ॐ व्हीं ऋतम्

१२ ॐ ऱ्हः बृहत् ॐ व्हः भास्तराय नमः ।

१३ ॐ न्हां न्ही इंसः शुचिपद्वमुरन्तरिक्षसत् ॐ न्हां न्हीं मित्ररिव-

भ्यां नमः ।

१० ॐ ईं ऋतजाऽअद्रिजा

१४ ॐ न्हूं न्हूं होता वेदिपदितियिर्दुरोणसत् ॐ न्हूं न्हूं सूर्यभानुम्यां

नमः । १५ ॐ व्हीं व्हः नृपद्भरसत् ॐ व्हीं व्हः खगपूपभ्यां नमः ।

१६ ॐ न्हां न्हीं ऋतसद्व्योगसत् ॐ न्हां न्हीं हिरण्यगर्भगरीचिम्यां नमः १

१७ ॐ व्हूं व्हें अन्जा गोजाऽऋतजाऽअद्रिजाः ॐ व्हू व्हें आदित्य-स्रतितभ्यां नमः ।

१८ ॐ न्हीं न्हः ऋतं बृहत् ॐ न्हीं न्हः अर्कभास्तराभ्या नमः।

१९ ॐ व्हां व्हीं व्हूं व्हें हसः शुचिपद्रसुरन्तरिक्षसद्धोता वेदिषदितिथि-र्दराणसत् ॐ व्हां व्ही व्हूं व्हें मित्रिविसूर्यभातान्यो नमः ।

२० ॐ न्हीं न्ह: न्हा न्हीं नृपद्वरसदृतसदृन्योमसत् ॐ न्हीं न्ह: न्हां न्हीं खगपूपहिरण्यगर्भमरीचिम्यो नमः।

२१ ॐ व्हूं व्हें व्हें व्हः अन्जा गोजाऽऋतजाऽअद्रिजाऽऋतम्बृहत् ॐ व्ह व्हें व्हें व्हः आदित्यसवित्रर्भभास्तरेम्यो नमः ।

२२-२४ ॐ वहां वहीं वहुं वहुँ वहीं वह: ॐ वहां वहीं वहुं वहें वहीं वह हंस: शुधियहसुरसरिक्षसदोतारिश्यदिविधिद्देरीणस्त् । इयदः रसदृतसद्व्योगमय्द्रजागोजाऽऋतजाऽअद्विजाऽऋसम्बृहत् ॥ १ ॐ वहां वहीं वहुं वहें वहां वह: ॐ वहां वहीं वहुं वहें वहीं वह गित्रसिद्धभाव्यगप्यदिख्यगभेमगच्यादियसिवित्रकंभाकरेग्ये नम: ॥ इति तिः ॥

२५ ॐ श्रीसादित्रे सूर्यनारायणाय नमः ।

आहित्यस्य नमस्प्तारान् ये कुर्वन्ति दिने दिने । जन्मान्तरसहर्त्रमु दार्रियां नीपजायते ॥ १ ॥ नमो धर्मविधानाय नमस्ते ध्वतसक्षिणे । नमः प्रत्यकृदेवाय भारतराय नमेननमः ॥ वे ॥ अफाटमुख्हरण सर्वन्याधिवनारानम् । सर्वपादोदकं तार्थं जठरे धारयान्यहम् ॥ ३ ॥

(इति तीर्थं गृहीत्वाचमनं वुर्यात्)

N. E. The Veduc Hymn u el here is given with its explanation on pages 45 and

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